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Winners for 1938

Petunia, Salmon Supreme

A new color in Petunias, one that has been long wanted. Flowers are a rich coral-salmon, changing as they mature to a glistening soft, salmon-pink with a lighter throat. Award of Merit 1937 All-America Selection. (See Page 24.) **Pkt., 35c each.**

Calliopsis, Golden Crown

Large, orange-yellow or gold flowers with extra rows of petals; stems about 12 inches long. Award of Merit 1937 All-America Selection. (See Page 22.) **Pkt., 25c each.**

Calendula, Orange Fantasy

A new type and distinct. Flowers 3¾ inches across. Color a deep bronzy or coppery orange with petals edged deep mahogany red. Award of Merit 1937 All-America Selection. (See Page 22.) **Pkt., 25c each.**

Zinnia, Navajo

Another of the new Zinnia types, being entirely different than all others and resembling the double flowering Gaillardia. Color two-toned in many attractive color combinations. (See Page 25). **Pkt., 25c each.**

The J. Chas. McCullough (1938) Seed Co.

230-232 E. Fourth Street
CINCINNATI, OHIO

PArkway 2600

You too . . . can have a beautiful lawn!

To secure a beautiful lawn, the ground should be well drained and the soil carefully prepared to make it fine, smooth, and mellow. Careful consideration should be given as to the kind of seed to be used. The cost of the seed represents the smallest part of the investment. It is false economy to save a few cents by purchasing a lawn seed from a questionable source, only to be annoyed later by repatching a weedy turf or being required to do the entire work over. The seed should be sown at a time when the young plants have a chance to become established before being exposed to extreme dry, hot weather or freezing temperatures.

Seed should be sown evenly at the rate of 1 pound to 250 square feet on new lawns or 100 pounds per acre. It requires about one-half as much seed for an established lawn, depending on how thick a stand of grass there is, usually about 50 pounds per acre for renovating. A thick sod is the best protection against weeds.

Sow seed on a calm day. To insure uniform distribution, half the seed should be sown one way, then cross and sow balance at right angles. The seed should be covered by light raking and a top dressing of peat moss or humus. The lawn is then ready for rolling. If watering is necessary, use a fine spray to prevent washing.

ACME SUPERFINE LAWN SEED

As the name implies, this mixture is the finest that modern seed machinery will produce. It is 98½ per cent pure. It contains only the plump seeds which produce the strong, healthy plants. It is a scientific combination of extra heavy Kentucky Blue Grass, recleaned Poa Trivialis, Fancy Red Top and Creeping Bent. All deep-rooting permanent grasses, free from any of the coarse grasses. Truly the best lawn seed obtainable. **1 lb., 60c; 3 lbs., $1.75; 5 lbs., $2.75; 10 lbs., $5.25; 20 lbs., $10.00.**

EMERALD LAWN SEED

Our standard mixture that has proven satisfactory to our customers over a period of many years. Produces a good clean permanent turf. Composed of recleaned Kentucky Blue Grass, Fancy Red Top, Creeping Bent, Chewing's Fescue, White Clover, and other fine grasses. Does not contain any timothy, better known as hay seed).

Emerald will give satisfaction. **1 lb., 35c; 3 lbs., $1.00; 5 lbs., $1.50; 10 lbs., $2.75; 20 lbs., $5.00.**

ALL SEED WE SELL IS TESTED FOR PURITY AND GROWING QUALITIES — FOR YOUR PROTECTION

● *There is None Better*

The Outdoor Living Room

Quality GRASSES

For All Soils and Purposes

We supply in this vicinity nearly all of the cemeteries, public parks, golf courses, and other places where considerable quantities of grass seed are used and we are prepared at all times to furnish the highest quality seeds for all purposes. We will be pleased to estimate on any special mixture that may be required.

SHADY NOOK LAWN SEED. Many beautiful lawns are marred by bare spots under trees, shrubbery, and near buildings. Shady Nook is composed of an excellent selection of fine grasses that will withstand such conditions better than those in our other mixtures. It is important that soil fertility and moisture supply is well provided in places getting but little sunshine. **Per ½ lb., 30c; 1 lb., 50c; 3 lbs., $1.25; 5 lbs., $1.75; 10 lbs., $3.25; 20 lbs., $6.00.**

HILLSIDE or TERRACE LAWN SEED. For high, dry situations where moisture and poor soil are conditions to be contended with. It is composed of grasses that will succeed fairly well under these conditions and produce short green turf. **Per ½ lb., 20c; 1 lb., 35c; 3 lbs., $1.00; 5 lbs., $1.50; 10 lbs., $2.75; 20 lbs., $5.00.**

QUEEN CITY LAWN SEED. This mixture is composed of Blue Grass, Red Top, Rye Grass and White Clover. It can be depended on to produce a beautiful and permanent lawn. **Per ½ lb., 15c; 1 lb., 25c; 5 lbs., $1.00; 10 lbs., $1.90; 20 lbs., $3.50.**

WHITE DUTCH CLOVER (Trifolium repens). A valuable legume for use in lawn and pasture mixtures, or sown as a straight crop.

ASTORIA BENT, RHODE ISLAND BENT, COLONIAL BENT (Agrostis tenuis). An excellent all-round bent for lawns, greens, parks and playing fields; grows on wide range of soils; spreads mainly by underground root stalks or rhizomes, making a deep reinforced sod. It seldom produces many stolons or surface runners, thus lessening the amount of top-dressing and watering. Sow about 5 lbs. to 1000 square feet.

SEASIDE or COOS COUNTY BENT (Agrostis maritima). A superlative bent for putting greens and lawns, ranked high by U. S. Golf Association for putting surface, producing a luxuriant matted growth. It is one of the most vigorous stoloniferous creepers although this characteristic does not usually show up till the second year, after which it makes a fine turf of uniform color and texture. Sow about 5 lbs. to 1000 sq. ft.

BERMUDA (Cynodon dactylon). 35 lbs. per bushel. A vigorous creeper used principally in the South. Can also be used as an annual grass in the North.

BLUE GRASS, CANADIAN (Poa compressa). 14 lbs. per bu. For general use, inferior to Kentucky Blue Grass. Superior in dry, shady or impoverished soils. It does not make a good turf as it produces a large amount of stems and comparatively little foliage. Good upland pasture grass.

BLUE GRASS, KENTUCKY (Poa pratensis). 14 lbs. per bu. Largely used for lawns and when once established, lasts indefinitely. An excellent pasture grass. Deep rooting and attractive color. For lawns, sow 3 to 4 bu. per acre; for pastures 1½ to 2 bu. per acre.

BROME GRASS (Bromus inermis). 14 lbs. per bu. A hardy perennial, the seed of which may be sown from spring to fall. It is especially valuable for pasture, the vigorous root stalks forming a firm sod. Brome Grass is more drought resistant than ordinary eastern meadow grasses and does not require a heavy good soil, but thrives on poor land. Usually sown broadcast at the rate of 20 lbs. per acre.

CRESTED DOG'S TAIL (Cynosurus cristatus). 21 lbs. per bu. Very much esteemed for lawns and mixtures in many of the Northern States, producing a quick growth of short grass, which is of little forage value and has many stems. 50 lbs. per acre.

FESCUE, CHEWINGS (Festuca Rubra var. Fallax). 24 lbs. per bu. New Zealand grown. This fine-leaved grass produces a bright green turf, especially well adapted for tree shade, on account of its drought resistance. 40 lbs. to the acre.

FESCUE, FINE LEAVED (Festuca capillata). A variety of sheep fescue. It is an excellent shade grass, tolerant of heat and dry soil. Dark green in color.

FESCUE, MEADOW or ENGLISH BLUE (Festuca elatior). 24 lbs. per bu. Sometimes known as Evergreen Grass. Used largely for permanent pasture. 24 lbs. per acre required if sown alone, or in mixtures, 12 to 18 lbs.

FESCUE—SHEEP, ORDINARY RED, or HARD (Festuca ovina). 14 lbs. per bu. There is a slight difference between the strains of Sheep, Ordinary Red (not Creeping) and Hard Fescue, but of recent years the strains have been substituted so regularly and have been so mixed that we are offering only one strain. Excellent for pastures and withstands much heat and drought. If allowed to grow tall it forms tufts. Requires alone 1½ to 2 bu. per acre. In mixture ½ to 1 bu.

ORCHARD GRASS (Dactylis glomerata). 14 lbs. per bu. Particularly suited to upland, loamy or moderately stiff soil. It ripens three weeks ahead of Timothy and is excellent to sow with Red Clover. Usually yields two crops and is one of the most valuable grasses for both pasturage and hay. Requires 1½ to 2 bu. per acre; if with Red Clover, 1 to 1½ bu. of Orchard Grass to 5 or 6 lbs. of Red Clover. For seed the same quantity of Red Clover and ¾ of a bu. of Orchard Grass.

POA TRIVIALIS (Rough Stalked Meadow). 14 lbs. per bu. This grass is known as "The blue grass of the shade," being particularly adapted for shady places. Same family and characteristics as Blue Grass. For lawns, 4 to 5 bu. per acre; for pastures, sow 1½ to 2 bu. per acre.

RED TOP, FANCY RECLEANED (Agrostis alba). 30 lbs. per acre. Sometimes called Herds Grass. Used as one of the principal ingredients in lawn seed mixtures. Also splendid for pasture, making a fair hay crop. Best suited to moist rich soil, although does well on poor soil. Excellent when sown with

Timothy, both maturing together. Requires 6 to 8 lbs. alone, or 3 to 4 lbs. to acre in mixtures.

RED TOP, ORDINARY or UNHULLED (Agrostis alba). 14 lbs. per bu. Sow at the rate of 30 lbs. per acre. See Fancy Red Top.

RYE GRASS, DOMESTIC. 24 lbs. per bu. Also known as Western Rye Grass. It is inclined to be an annual and is especially valuable for use in lawn mixtures as a nurse crop; it is a quick growing grass and succeeds well on almost any type of soil.

RYE GRASS, ITALIAN (Lolium multiflorum). 24 lbs. per bu. Similar to Perennial Rye Grass but little quicker maturing. Good for a quick hay crop. If alone, requires 1½ bu. per acre. In mixture, 2 to 3 pecks per acre.

RYE GRASS, PERENNIAL (Lolium perenne). 24 lbs. per bu. Often called English Rye Grass. A quick growing grass which is most suitable for mixtures, pastures, hay and lawns. Succeeds well on almost any soil not water sogged and affords good, quick nutritious grazing. If alone, requires 1½ bu. per acre. In mixture, from 2 to 3 pecks per acre.

TALL MEADOW OAT GRASS (Arrhenatherum elatius). 11 lbs. per bu. A very fine grass which is suitable for upland soils and especially valuable for mixture with Orchard Grass. It ripens about the same time and forms a better sod. Cut when in bloom it is very nutritious and it affords wonderful amount of pasturage. Requires alone 1½ to 2 bu. per acre; in mixture from ½ to ¾ bu.

TIMOTHY (Phleum pratense). 45 lbs. per bu. It is the most desirable of all grasses for hay but should not be grazed as the tramping of cattle hoofs causes it to die. In this section Timothy is best suited to low, flat or alluvial soils where there is a fair amount of moisture but does not grow well in water-sogged soil. Requires alone, 1 peck per acre; if with Clover, 8 lbs. Timothy and 5 to 6 lbs. of Clover.

PRICES ON ALL GRASS SEEDS
Are subject to market changes. We will be pleased to quote firm prices on request. Orders entrusted to us will be filled at the lowest price on the day received.

Vegetables Approved Varieties for Your Garden!

Genuine Logan Giant Beans

Fordhook Favorite Beans

A White-Seeded Stringless Greenpod Variety

There is an increasing demand for a white-seeded, dwarf, green-podded Bean. We do not hesitate to recommend this variety for exceptional fine quality. Pods are round, fleshy, tender, and strictly stringless, 5½ to 6 inches long. Seeds pure ivory-white. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., $1.25.**

Logan Giant Beans

A Green-Podded Pole Variety

If you want delicious, tender, fine flavored snap Beans, be sure to plant some Genuine Logan Giants. There is no Bean of its class that we have grown that is as tender and as fine quality. Many of our customers consider it the best Pole Bean they have ever grown and will have nothing else. The pods, produced in clusters and in great abundance, are light green, 6 to 7 inches long, broad, round and slightly curved. From ten days to two weeks earlier than Improved Kentucky Wonder. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.**

Norwood Blood Turnip Beet

One of the Best For Canning

A superb early main crop variety, both for market and the home garden. The roots are turnip shape, bright red, tender, and of excellent flavor. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

Imperator Carrot

Award of Merit, All-America Selections 1933

Fine variety for home use. Sloping shoulders and semi-blunt end; 7 to 8 inches long; rich orange color with indistinct core. **Pkt., 10c; oz., 15c; ¼ lb., 35c.**

Imperator Carrot

Cincinnati Market Sweet Corn

Large Handsome Ears of Excellent Quality

Since this Corn was introduced, it has steadily grown in popularity among home and market growers. This variety is remarkable for its large yield. The rows instead of being straight are irregular. Ears are about 8 inches long, deep grain, sweet, tender, and of fine flavor. The attractive feature of this variety is that the ears are generally twice the size in diameter of any other sort. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.**

Straight Eight Cucumber

1935 All-America Gold Medal Award

One of the finest new Cucumbers which has been offered in many years. As its name indicates, it grows very straight; a long slender fruit with a slight taper at each end. At the edible stage, the length averages about 8 inches and the color is a rich dark green. This is a very attractive Cucumber and the fine quality makes it an excellent sort for slicing. **Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., $1.50.**

Improved Kleckley's Sweet No. 6

A Wilt-Resistant Watermelon

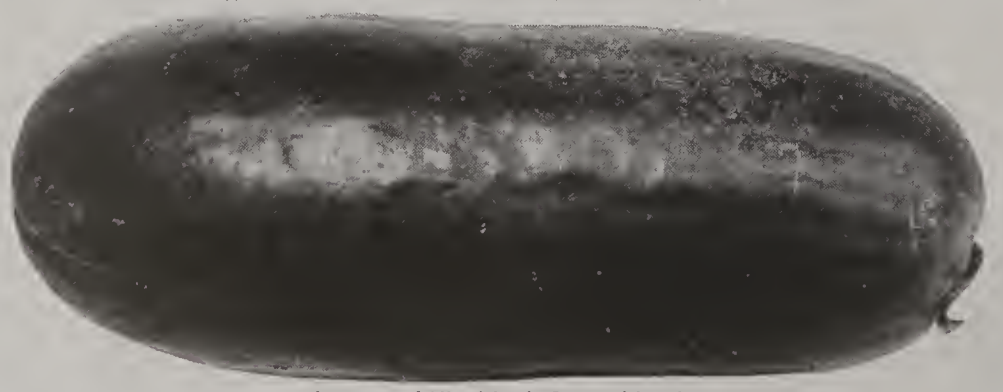
This new strain marks a distinct advancement toward the development of the popular Watermelons where soil disease is serious. An improved Kleckley's Sweet type which has proven almost fully resistant to fusarium wilt. It is dark green, of good length with deep red flesh and white seeds. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

Thomas Laxton Peas

An Early Wrinkled Variety

To our idea this variety has no superior as an early Pea of medium height. Vines are about 3 feet tall. They bear a large number of dark green pods, blunt ended, about 4 inches long, well filled with large tender Peas of excellent quality. If you plant Peas in your garden, make this your first choice. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.**

Thomas Laxton Peas



Improved Kleckley's Sweet No. 6

Cocozelle Green Bush Squash

Also Called Italian Vegetable Marrow

This is a most delicious and fine flavored sort of Squash. It is becoming more in demand each year. The color is a deep green when young, ripening with alternate stripes of green and gold. The shape is long and slender. It is used when 10 or 12 inches long and is boiled or cut in slices and fried in butter. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

ALL 10c PACKETS ARE 3 FOR 25c; ALL 15c PACKETS ARE 2 FOR 25c

Washington Asparagus

SPARGEL (Ger.) ASPARAGUS SPARAGIO (It.)

One ounce of seed will sow 75 feet of row and produce about 250 plants.

From Seeds

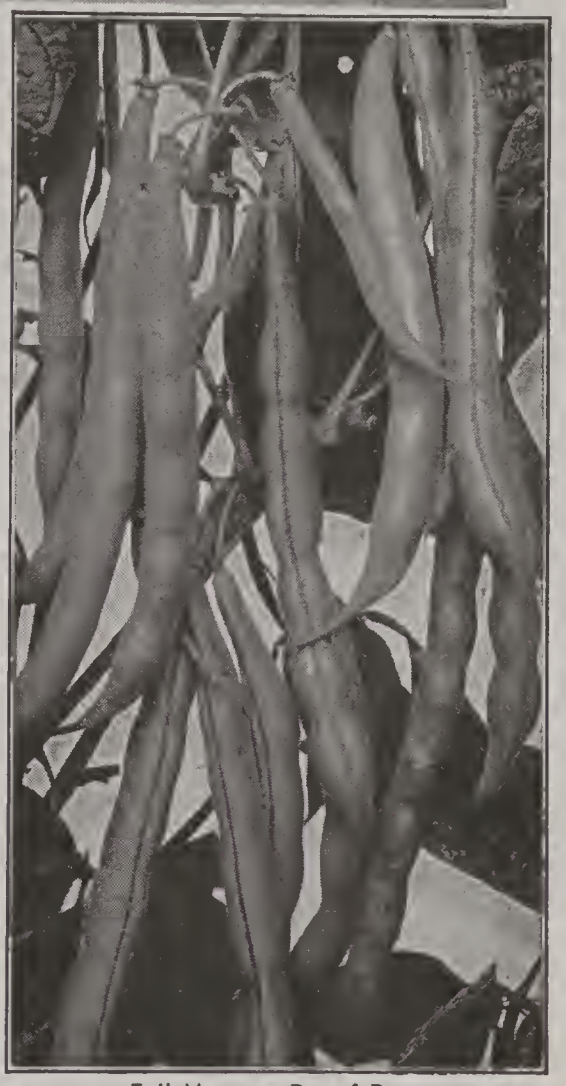
Sow seed as early as possible in the spring. The plants should be set in the permanent bed when one or two years old. The Asparagus may be cut the third year after setting out the roots.

1. **WASHINGTON—The Best Variety.** This variety has proven as nearly rust-proof as is possible to produce Asparagus. It is much in demand on account of its heavy yield and fine flavor. The stalks are rich, dark green color, tinted darker at tips. **Pkt., 10c; oz., 15c; ¼ lb., 35c.**

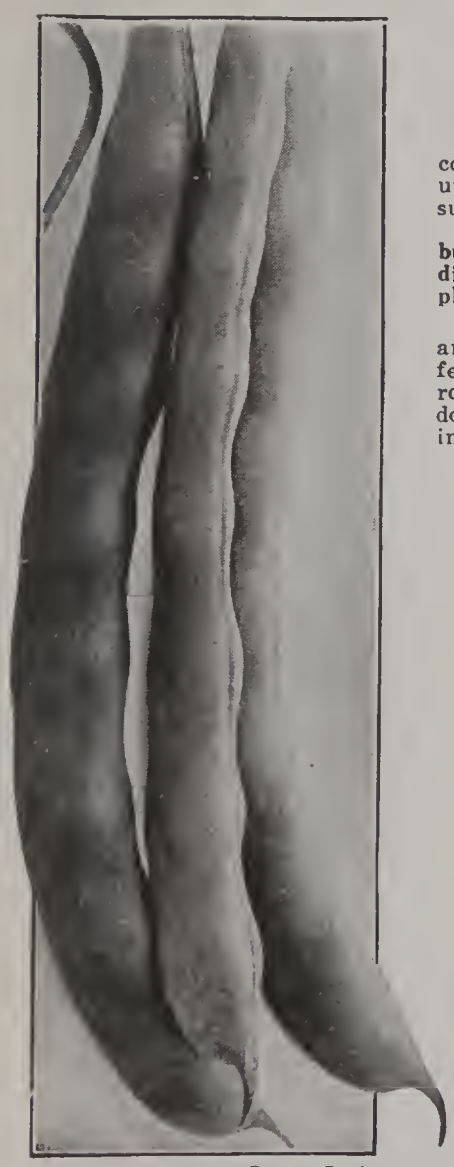
Fresh Dug Asparagus Roots

Roots can be set from February to May, or in the fall, in October or November. **100 roots plant a bed 100 feet long and are sufficient for a medium garden. An acre requires 4000 to 7000 roots.**

WASHINGTON. (Rust-resistant). A new rust resisting pedigreed Asparagus. It stands ahead of all others in size, vigor, tenderness and quality. **2-yr. roots, 25 for 75c; 100 for $2.50, postage extra.**



GROWING ASPARAGUS. The size of Asparagus depends more on high fertilization than on the variety. Well-drained, rich soil, where it will not be in the way when the rest of the garden is plowed is best. Two-year-old roots give quickest results. Plow or dig out a trench 18 inches wide, 6 to 10 inches deep, making the trenches 6 to 8 feet apart. In the bottom of the furrow use 4 to 6 inches of well-rotted manure, then cover with 2 or 3 inches of good soil. The roots are set 12 to 15 inches apart, and should be spread out carefully and afterwards covered with about 2 inches of soil. Do not cover with too much soil the first year, but the following years they can be hilled up. If white Asparagus is wanted the beds should be thrown higher than if wanted for green Asparagus. Do not cut Asparagus too late in the spring, as it exhausts the plant. The most practical growers on the day they stop cutting, throw down the beds with a plow, then harrow the ground, leaving the plants to grow. In November the tops are cut off and a mulch of manure put on the top of the rows, which is afterwards worked into the soil, when the beds are thrown up in the spring. For a small garden, Asparagus roots can be set in double rows instead of single.



Giant Stringless Green Pod

BOHNEN (Ger.) BEANS FAGINOLI (It.)

Dwarf or Bush Varieties

Always popular and easily grown. If planted every 2 or 3 weeks, commencing after all danger of frost has passed and continuing until about August 15th, a supply will be kept up during the whole summer.

One pound plants about 100 feet. An acre requires 1 to 1½ bushels. Half pound planted every 3 weeks is sufficient for a medium garden. They are ready for table from 40 to 50 days after planting.

Full Measure Dwarf Beans

Culture. To produce the best results, Beans should have a good soil and deep or thorough tillage before planting and shallow cultivation afterwards to prevent too much disturbing of the roots. For field culture plant in rows 2½ feet apart, dropping the Beans 3 to 4 inches apart in the rows, covering about 2 inches with soil. In small gardens, rows may be 18 inches apart. Up to the time of blooming, cultivate often, but never while the vines are wet, and do not disturb the roots, especially after blooming, as they will blight and the crop will be reduced. Constant picking extends bearing.

Insect Remedies—For Mexican Bean Beetle, dust the under side of leaves with Magnesium Arsenate Dust Mixture. For fungous diseases and rust, spray with Bordeaux Mixture.

Green Podded Beans

2 **TENDERGREEN.** One of the very best of the round, green-podded Beans. Fleshy pods about 6 inches long, strictly stringless and of fine quality. Very productive and closely resembles an improved Full Measure Bean.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

3 **IMPROVED EARLIEST RED VALENTINE.** A well-known very early sort. Pods of medium length, about 4½ inches long, of medium green color, curved, cylindrical, with crease in the back, very fleshy, crisp and tender. Vines medium to large.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

4 **STRINGLESS RED VALENTINE.** Similar to Improved Earliest Red Valentine except the pods are entirely stringless.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

5 **STRINGLESS GREEN POD.** A very handsome, long, cylindrical, medium maturing green Bean. Pods larger than those of Valentine and straighter. Very fleshy and remain crisp and tender longer. Vines of vigorous growth and productiveness. A very desirable sort for home gardens and largely grown for market.
Pkt., 10c; ½ lb., 20c: 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

6 **GIANT STRINGLESS GREEN POD.** A highly productive and very handsome sort. Vines vigorous, spreading. Pods large, round, averaging larger and straighter than the Stringless Green Pod, but a few days later.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

7 **DWARF HORTICULTURAL.** Very popular in most localities, especially for market, as they are valuable both for snap Beans and shelling. They become fit for use as shelled Beans early, and in this condition the Beans are large, easily shelled and equal to Lima Beans in quality. The vines are very productive, compact and upright in growth, with large leaves. The pods are 5 to 5½ inches long, broad, thick, curved and have splashes of bright red on yellowish green.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

8 **FORDHOOK FAVORITE.** There has always been a large demand for a white seeded, dwarf, green podded bean. Pods are round, fleshy, tender, and strictly stringless, 5½ to 6 inches long. Seeds pure ivory-white.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., $1.25.

Improved Golden Wax

Green Podded Dwarf Beans—Continued

9 **FULL MEASURE (Perfection Stringless).** A very desirable round-podded variety with pods about 6½ inches long, which are solid, meaty, brittle and stringless. It is a little later than Stringless Green Pod and is a splendid Bean for home or market use. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

10 **REFUGEE (Late or 1000 to 1).** One of the best sorts for late planting and especially desirable for canning and pickling. The vines are large, spreading, very hardy, with small, smooth light green leaves. The Beans are borne in great profusion, pods being about 5 to 5¼ inches long; cylindrical, slightly curved, medium green, afterwards becoming light yellow, slightly splashed with purple. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

11 **BOUNTIFUL.** An improved long Yellow Six Weeks; earlier, very much larger and more tender. It is very hardy, extremely early, very prolific, and bears continuously for several weeks. Pods are flat, absolutely stringless, rich green, very large and handsome. For very early or very late planting it is very desirable for both home garden and market. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

12 **TENNESSEE GREEN POD.** A dwarf, early snap Bean, very hardy and more capable of withstanding inclement weather than most other sorts. The vines are large, somewhat spreading, prolific. The pods are very long (often 6 to 7 inches) flat, irregular in shape, of dark and vivid green color. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

Dwarf Wax Beans

17 **ROUND POD KIDNEY WAX.** Long, round, handsome, stringless pods of large size, very solid and full of meat, crisp, brittle, and free from rust. Earliest and best Wax Bean. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

18 **WARDWELL'S KIDNEY WAX.** A variety which matures a little later than the Golden Wax, yields large crops of long, nearly straight, broad pods of light golden yellow color. They are extremely showy, consequently are ready sale and most profitable for market gardeners and an excellent variety for growing in home gardens. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

19 **PENCIL POD BLACK WAX.** One of the most popular varieties for home use and market. The pods are about 4½ inches long, slightly curved, round, very brittle and tender. They are very fleshy, clear golden yellow and remain tender a long time. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

20 **CURRIE'S RUST-PROOF WAX.** A variety which is claimed to be rust-proof. The vines are very vigorous, hardy, productive. Pods, light yellow, similar in shape to Golden Wax, 5½ to 6 inches long. Matures early. Splendid for market and home use. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

21 **IMPROVED GOLDEN WAX.** An early maturing variety, very productive. Vines erect, compact, bearing pods well off the ground. Pods nearly straight, broad, flat, golden yellow, very fleshy and waxlike, usually 4½ to 5 inches long. A good sort for home garden, either for table use or pickling. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

INOCULATION FOR BEANS. Excellent results will be obtained by treating the seeds of Beans with NITRAGIN INOCULATOR before planting. Easily done. We have it in convenient size for small gardens. (See page 53).

Dwarf Beans—For Shelling Only

Usually profitable as a farm crop, especially in northern sections.

Culture. Plant in rows about 2½ feet apart. The Navy requires about ½ bushel per acre. Other sorts about a bushel.

13 **DWARF WHITE NAVY.** The well-known small oval white variety so largely used in all sections. **½ lb., 15c; 1 lb., 25c; 2 lbs., 40c; 5 lbs., 85c.**

14 **DWARF WHITE MARROW.** Beans oval, about double as large as Navy. Vines vigorous and productive. **½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.**

15 **DWARF WHITE KIDNEY.** Large white, kidney-shaped, slightly flattened. Pods about 6 inches long, large and coarse. Beans excellent quality either green or dry. **½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.**

16 **DWARF RED KIDNEY.** Similar to above, but dark pink color. Very salable. **½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.**

Pole or Cornfield Beans

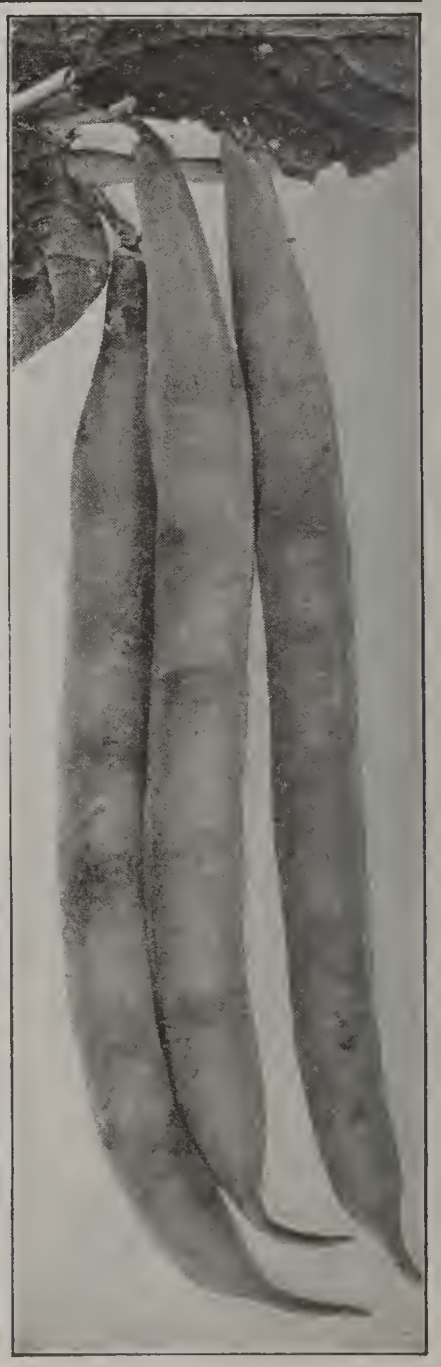
Culture. Pole beans are more sensitive to cold and wet than Dwarf varieties, hence should not be planted too early. Use poles from 6 to 8 feet long in rows 4 feet apart, placing the poles 3 feet apart in the row. If the poles are slanted slightly to the north, the vines climb better and the pods are more easily seen. In home gardens three poles are usually placed wigwam style and tied at the top. Around each pole plant 4 to 6 beans from 1 to 2 inches deep. When ready to run, thin to 4 plants and see that they all climb the same way, as if trained wrong they will not climb. If to be planted in corn, this should be done after the corn is well started and has had 2 or 3 workings. One pound will plant 100 hills. **An acre requires about 15 pounds of seed. One pound will plant 100 hills.**

22 **IMPROVED KENTUCKY WONDER (Or Old Homestead).** A well-known variety and one of the most popular of all Pole Beans, especially in the middle sections. The vines are very vigorous, heavy and very prolific, hence not desirable for planting in corn. Pods are of irregular shape, bright green, very long, often reaching 9 to 10 inches. They are very tender, crisp and stringless when young, but become irregular and spongy as the beans ripen. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

23 **WHITE SEEDED KENTUCKY WONDER. (St. Louis Perfection White).** Similar to the above, excepting that the beans are different shape and solid white. It is early maturing, very desirable for snap beans and an excellent variety for green shelling and unsurpassed in quality as baked beans. Very profitable for market gardeners and highly praised in all sections. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

24 **MISSOURI WONDER.** An extremely prolific variety, maturing in the same season or a little later than Improved Kentucky Wonder. A green podded variety of high quality. The pods are nearly as long as those of Improved Kentucky Wonder, but slightly broader and flatter and lighter in color. When in condition for snap beans, the pods are nearly stringless. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.**

25 **LOGAN GIANT.** See full description on page 2. The finest quality of the pole green podded varieties. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.**



Improved Kentucky Wonder Pole Beans

ALL 10c PACKETS ARE 3 FOR 25c; ALL 15c PACKETS ARE 2 FOR 25c

Pole or Cornfield Beans—Continued

26 RED SPECKLED CUT-SHORT or CORN HILL. A very popular variety, especially for planting among corn. It will give a good crop without the use of poles. The vines are not as heavy as Kentucky Wonder, being medium size, vigorous, twining loosely, with dark colored leaves. Pods are 3 to 3½ inches long, straight, flat, fleshy and of good quality. As they mature the pods become light yellow tinged with red, the beans showing distinctly through the pods.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

27 HORTICULTURAL POLE or SPECKLED CRANBERRY. A very popular variety for general purposes, either as a late green shelled bean or for snaps. The pods are of medium length, 4½ to 5 inches long, broad; when young pale green, gradually changing to yellowish green striped or splashed with red. Vines are moderately vigorous, with large light colored leaves. Can be grown on corn or on short poles. As shelled beans they equal Limas in flavor and are excellent to use as dry beans for boiling or baking.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

28 WHITE CREASEBACK. An extremely early variety, which produces nearly all its pods at the same time. The vines are medium size and vigorous, and in rich soil wonderfully productive, bearing round, fleshy pods in clusters of from 4 to 12, which makes it extremely easy to gather. Pods are about 5 inches long, comparatively straight, attractive. light green, very fleshy, with a crease down the center.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

29 SCOTIA or STRIPED CREASEBACK. A hardy and very productive green-podded cornfield bean. The vines are sturdy and of good climbing habit with small-medium deep green leaves. The pods are long, about 6 inches, very cylindrical or completely rounded, distinctly crease-backed, very fleshy and of excellent quality. The color, when in condition for use as snaps, is light, silvery green, becoming tinged with purple as the pods mature. This variety is especially suitable for growing in corn for snaps.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

30 TENNESSEE WONDER, or EGG HARBOR. Large green pods, curved, tinged with purple and wrinkled, depressed between each of the eight or nine seeds. One of the largest of all cultivated beans.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

31 LAZY WIFE. A somewhat late maturing variety, bearing medium green pods in large clusters. Pods are 5½ to 6½ inches long, broad, thick, fleshy and entirely stringless. When young they have a rich flavor which is retained until they are nearly ripe. An excellent sort for either snap green, shelling, or using as dry beans.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

32 McCASLAN. The pods, produced in great abundance, are a rich, dark green color, measuring about 10 inches long, rather flat and slightly curved. Fine for use as a snap sort, being entirely stringless when young. If pods are picked before maturing, vines bear till frost. If pods are allowed to mature, they produce a good sized white bean for winter use.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

Burpee's Bush Lima

Pole Beans—Wax Pod

33 OHIO WAX POLE. Pods usually 7 inches long, solidly meaty and entirely stringless; commences to bear when scarcely higher than bush variety, and keeps on producing until killed by frost.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

34 GOLDEN CLUSTER WAX. One of the best wax podded pole snap beans. Vines large, vigorous and hardy. Pods 6 to 8 inches long, borne in clusters and vary in color from golden yellow to creamy white.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

Lima Beans—Dwarf or Bush

These are preferred in small gardens, as they can be grown like Dwarf Beans, and without the use of poles. They are not quite so prolific as the Pole Limas, but are earlier and continuous bearers throughout the season. The beans can be gathered much easier than the Pole Limas and they can be grown closer together.

Culture. All Lima Beans are tender and the ground should be dry and the weather warm and settled before planting. They do best in good light soil, and if not rich, an application of sheep manure or other good fertilizer will be well repaid. Plant in drills, 1½ to 2 feet apart, dropping the beans 4 to 5 inches apart and covering about 2 inches deep. Cultivate often until they commence to flower, but only when the leaves are dry.

A pound of seed will plant about 150 feet of row. About 60 pounds per acre. For succession, make two plantings four weeks apart. Mature in 75 to 90 days from planting.

35 BURPEE'S IMPROVED BUSH LIMA. Pods and beans are both larger and thicker than Burpee's Bush Lima, and fully 8 days earlier. Plant is a vigorous grower with heavy foliage. Even when of full size the enormous beans are most luscious.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

36 FORDHOOK BUSH LIMA. A very vigorous and erect growing variety, bearing its pods well above the ground in large clusters. Pods are medium green, about 5 inches long and contain 4 to 5 large thick beans of exceptionally fine quality. We consider this one of the best of the large seeded kinds.
Pkt., 10c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., $1.50.

37 BURPEE'S BUSH LIMA. A bush form of the Large White Lima type. Plants are somewhat dwarf but very productive. Pods are medium green, broad, containing 3 to 4 very large flat beans of the best quality. Seed large, flat, white, with slightly greenish tinge.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

38 HENDERSON'S BUSH LIMA. An exceedingly productive variety of dwarf habit. Commences bearing very early and continues to grow and set pods until stopped by frost. The vines are without runners, somewhat dwarf, very productive. Beans small, white and most excellent quality either for green shelling or as dry beans.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.10.

39 JACKSON WONDER. Pods of medium size, containing 4 or 5 beans of fairly large size and good quality. Dry seed light buff, mottled with purplish black. Plant small to medium, spreading, with semi-runners and is drought resistant.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

Pole Lima Beans

Large seeded sorts require 2 pounds to 100 poles, ¾ bushel to an acre. Small Limas require about one-third the quantity.

Culture. These are to be treated like other Pole Beans excepting they should be planted one or two weeks later. Where soil is very stiff, it is best to plant the beans with the eye downward, as they will come up more rapidly.

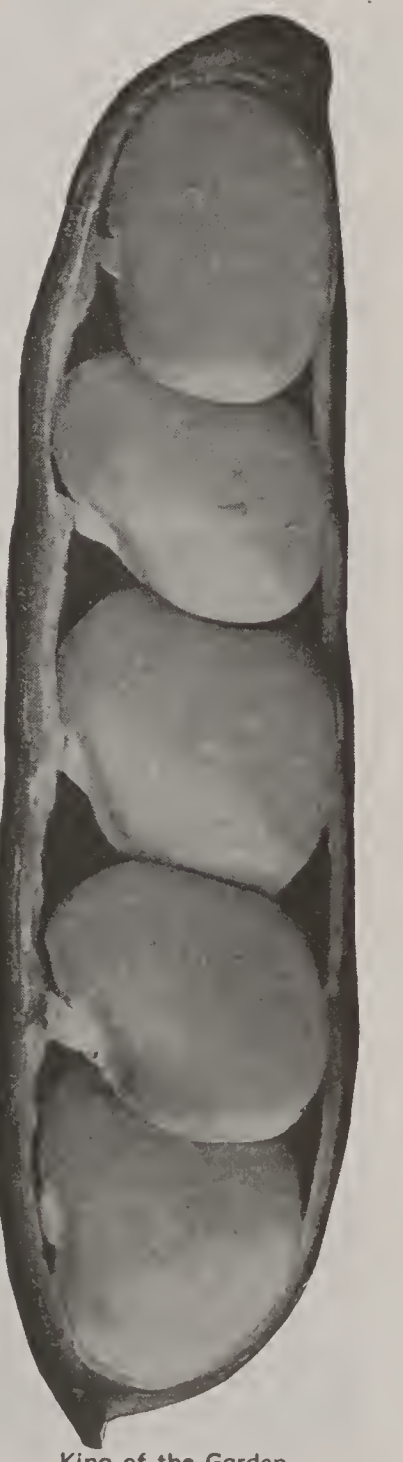
41 FORD'S MAMMOTH PODDED. The result of 20 years' selection by a market gardener near Philadelphia. It far surpasses in size and productiveness many other sorts and has become very popular throughout all sections. Pods are very large, usually containing 4 to 6 beans. Vines vigorous, setting the Beans early, and very productive.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

42 KING OF THE GARDEN. A favorite sort on account of its large size and abundant yield. The Beans are of greenish color, very tender and delicious.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

43 EXTRA LARGE WHITE POLE LIMA. A choice variety of the Large Lima. Pods and Beans of large size; good cropper. Quality unsurpassed.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

44 SMALL LIMA or SIEVA. Also called Butter or Carolina. Not as large as the other varieties but a good bearer and about 10 days earlier.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

45 FLORIDA BUTTER. Plants tall, vigorous, prolific over a long bearing season. Pods borne in clusters; about 3 beans in each pod. Seeds small, buff colored and spotted with reddish brown.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.



King of the Garden Pole Lima

Detroit Dark Red Beets

RUEBE (Ger.)

TABLE BEETS

BARBABIETOLE (It.)

Beets fresh from the garden are always more tender and delicious than those that are shipped. They can be sown in succession for different seasons and if too many are produced for table use, make excellent food for poultry and stock.

Culture. A deep loamy or sandy soil is best suited to Beets. If wanted very early they can be sown in hotbeds and transplanted in the open ground when the weather has moderated, but the outer leaves should be trimmed off when transplanting is done. The earliest outdoor sowing is done in March or April, in rows 15 to 18 inches apart, thinning or transplanting the plants to 3 or 4 inches apart in the rows. For winter use, sow in June or July. Roots can be stored in pits or cellars covering with sand to keep from wilting.

One ounce sows 60 feet of drill. Ten pounds 1 acre. Ready for use 60 to 75 days after sowing.

46 **EARLY WONDER.** This is the best Beet for early use. The highest quality for the home garden.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

47 **CROSBY'S IMPROVED EGYPTIAN.** An improved sort which is very popular with the market gardeners on account of its quick growth, extreme earliness, and general good qualities. The tops are small, roots flattened but slightly globe shaped and very smooth. Exterior bright red and inside deep vermilion-red zoned with a lighter shade It becomes fit for use earlier than any other variety and is much superior to some of the older sorts.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

48 **DETROIT DARK RED.** Produces medium size globe-shaped roots which are very smooth and of bright red color. Very desirable for bunching. Comparison with other varieties proves that **Detroit Dark Red** is the most uniform Beet in size and most attractive in color.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

49 **EARLY ECLIPSE.** The tops are small, roots bright deep red, smooth, round or slightly top-shaped with a very small tap root. It is splendid for bunching; is very sweet, crisp and tender, especially when young.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

50 **NORWOOD BLOOD TURNIP.** A superb early main crop Beet, both for market and the home garden. The roots are of turnip shape, growing 3 or 4 inches in diameter, smooth, and entirely free from small rootlets. Flesh bright red, tender, and of rich flavor. Foliage is small, of a rich bronze color.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

51 **EXTRA EARLY EGYPTIAN.** It is the earliest sort and largely used for forcing. Has very small tops and produces flat, medium size roots which are very dark red, moderately thick and distinctly flat on the bottom. Flesh is dark. purplish red, firm. crisp, and tender.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

52 **EDMAND'S EARLY BLOOD TURNIP.** A dark red, nearly round variety which is slightly flattened. Exterior, dark red; interior, purplish red with a little zoning. Crisp, tender, sweet, and one of the best for main crop, being an excellent keeper.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

53 **IMPROVED EARLY BLOOD TURNIP.** A selected stock of this old and very popular variety. It is of deep red color, zoned with lighter shade: roots round, slightly flattened and excellent for summer and autumn use.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 85c.

54 **DEWING'S BLOOD TURNIP.** A medium early sort which is very tender and sweet and a good keeper. Roots are dark purplish red, turnip shape with a medium size tap root.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

55 **LONG SMOOTH BLOOD.** A splendid late variety producing large, smooth, rather slender roots which grow largely under ground. It has few side roots and is good shape and color, exterior being dark purple, almost black, with delicate red flesh which is tender and sweet. Produces very good crops so that it is a profitable grower for stock feeding.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

Try
CINCINNATI MARKET
SWEET CORN
(See Page 2)
You Won't Be Disappointed.

SWISS CHARD

56 **SWISS CHARD.** This variety is grown for its tops only which are boiled like spinach. It does not make edible roots but produces yellowish green leaves; the stalks should be cooked and served like asparagus. Makes a splendid summer vegetable and is becoming popular. Known also as the Silver or Spinach Beet.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

FUTTER RUEBE (Ger.)

Beets for Stock Feeding

BARBABIETOLE (It.)

Too little attention is paid to this important crop for winter feed for stock. They yield enormously, sometimes making 15 tons to the acre; are very nutritious, not only improving the general condition of stock but greatly increase both the quantity and quality of milk in cows. A variety of feed is always beneficial to all animals and the Mangel-Wurzel and Sugar Beets afford one of the best crops for this purpose, as they are superior in feeding qualities to turnips and are a much larger yielding crop. All farmers and especially stock raisers should grow them extensively.

Mangels

Culture. Sow in the latter part of April, May, or June, at the rate of **six pounds to the acre,** in rows 2½ to 3 feet apart and thin to 8 inches apart. If seed is soaked 24 hours before sowing, it germinates more quickly but it should be put in when the ground is moist. The crop is harvested before frost and packed away in barns or cellars. They can also be put into piles or ridges 5 to 6 feet high and covered with straw or litter to keep from freezing too much. When the winter weather comes, throw on a layer of 4 to 6 inches of earth. A protection of boards to shed the heavy rains is also desirable.

57 **MAMMOTH PRIZE RED MANGEL.** Particularly suited to deep soils but succeeds on any medium or heavy soil. The roots are very large, uniform, and are enormously productive. Flesh is white, tinged with red. One of the best for general purposes. **Oz., 10c; ¼ lb., 20c; 1 lb., 60c.**

58 **GOLDEN TANKARD MANGEL.** A variety which produces very large roots, oval shaped, the bottom being larger than the top. It is light grey above the ground; deep orange-yellow below, flesh yellow zoned with white. A splendid sort for shallow soil and produces enormously on rich ground.
Oz., 10c; ¼ lb., 20c; 1 lb., 60c.

59 **LANE'S IMPERIAL SUGAR.** A very popular variety for stock and one which will succeed well in this latitude. The roots grow to a large size and it is more like a Mangel-Wurzel in character but the flesh is sweeter and more tender, being finer grained. Especially valuable for poultry.
Oz., 10c; ¼ lb., 20c; 1 lb., 60c.

Italian Green Sprouting Broccoli

Yellows-Resistant Cabbage Seed

Both varieties listed below are the result of special breeding against Yellows or Wilt Disease, an infection frequently attributed to hot or dry weather. Our stock seed is selected rigidly and continuously for type and resistance. We offer only **first generation** seed from such stock.

62 **MARION MARKET.** Highly resistant to yellows; round head, short stem, will permit close planting. Earliest of all yellows-resistant varieties selected from Copenhagen Market.
Pkt., 15c; oz., 55c; ¼ lb., $1.75.

63 **YELLOWS-RESISTANT HOLLANDER.** This is a strain of Hollander or Danish Ballhead. A heavy yielding, round head, late type.
Pkt., 10c; oz., 50c; ¼ lb., $1.25.

First Early Sorts

64 **GOLDEN ACRE.** This is an early, round-headed Cabbage which closely resembles Copenhagen Market in type. As its name implies, it is a money-maker. It is 8 to 10 days earlier than Copenhagen Market but is smaller and can be planted closer. Because of its earliness and fine quality it commands a higher price than any round-headed Cabbage.
Pkt., 10c; oz., 35c; ¼ lb., 95c.

65 **EARLY JERSEY WAKEFIELD.** One of the earliest and by far the surest heading of first early Cabbages. Most gardeners depend upon it entirely for their extra early crop. It is exceedingly hardy, resists cold and unfavorable conditions and is the most likely to yield satisfactory results. Plants are compact, with erect conical heads and few outer leaves. Stems short; heads of medium size, very solid and of excellent quality.
Pkt., 10c; oz., 35c; ¼ lb., 95c.

66 **EARLY WINNINGSTADT.** One of the best conical or sharp heading sorts which is compact and of excellent quality. Quick maturing. It is the hardiest not only as regards frost but will suffer less from excessive wet, drought, insects, or disease than any other sort of its class.
Pkt., 10c; oz., 30c; ¼ lb., 90c.

68 **COPENHAGEN MARKET.** The earliest round-head or flat Cabbage yet introduced. The heads are exceptionally large and it has a very short stem and few outer leaves—a most excellent sort for home gardens and market gardeners. On account of extreme earliness, it is destined to become one of the leading sorts grown, as a flat Cabbage fills barrels or crates faster than sharp head Cabbage and will yield the grower more returns. We predict for Copenhagen Market an extensive cultivation. Our stock is from one of the best Denmark growers.
Pkt., 10c; oz., 30c; ¼ lb., 90c.

Red Cabbage

82 **MAMMOTH ROCK RED.** A variety used mainly for pickles and sauerkraut. It is highly esteemed.
Pkt., 10c; oz., 35c; ¼ lb., 95c.

Broccoli

60 **ITALIAN GREEN SPROUTING (Calabrese).** The truest heading strain. A packet will produce about 200 plants; an ounce about 2000. Broccoli is grown the same as cabbage or cauliflower. Simply sow the seed in the open ground in May and transplant the plants when large enough. Plant forms a large, solid head which remains green. When the central head is cut, numerous sprouts develop from the leaf axils, each sprout terminating in small, green heads. A popular delicacy for the entire family.
Pkt., 10c; ½ oz., 25c; oz., 40c.

Brussels Sprouts

ROSENKOHL (Ger.) **CAVALO DI BRUSSELS (It.)**

One ounce makes about 2000 good plants.

A vegetable of the cabbage family which is largely used in the fall. It should be more largely grown in home gardens. It produces stalks about 2 feet high, which are covered with small heads resembling miniature cabbage. These are cooked and served like cabbage and are very tender and delicious.

Culture. Same as for late cabbage, but plants are set closer together.

61 **PERFECTION.** A semi-dwarf variety and one of the best. **Pkt., 10c; oz., 25c.**

KRAUT (Ger.) # CABBAGE **CAVOLO CAPUCCI (It.)**

Culture. For earliest plants the seed is sown in hotbeds from January to March. To make the best plants, sow early and transplant to cold frames. Then at the end of March or the first of April transplant to the garden. **One ounce makes about 2000 good plants. Six ounces make plants enough for 1 acre.** For summer use, sow in the open ground in April and for late use, sow in May or June. There is no crop that repays so well, heavy fertilization and constant cultivation. When plants are planted in the field, apply sheep manure either in drills or around the plant, mixing with the soil. To raise the best crops of Cabbage, it is of the utmost importance that select seed stock be used. The varieties we list are saved from the very best stocks and will give excellent satisfaction. We particularly call attention to Copenhagen Market and Premium Late Flat Dutch, as being the leading sorts of the types. All home gardens should plant some Savoy Cabbage, as it is so much more delicious in flavor than the ordinary sorts.

One ounce for 2,000 plants.

Second Early Varieties

72 **ALL SEASONS.** One of the largest and a thoroughly satisfactory second early sort. Plants are vigorous, sure heading; leaves large and smooth. This is a first class sort both for early and late planting and is especially adapted for kraut. It is well adapted to stand the hot sun and adverse conditions.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

73 **EARLY DWARF FLAT DUTCH.** A variety which has long been popular among growers, both for home use and markets. The heads are borne on short stems and are very large, solid, and nearly flat on top. Practically every plant will form a good, solid head which will mature earlier than Late Flat Dutch.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

74 **EARLY SUMMER.** An excellent second early Cabbage, which is a vigorous, strong grower, producing moderately large heads. It has rather spreading outer leaves, which are somewhat frilled and the stem rather short. The heads are round, solid and a trifle earlier than other summer sorts, and in addition will stand longer without bursting than most others.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

75 **ALLHEAD EARLY.** As early as most of the early summer Cabbages; the deep, flat heads are extremely solid and uniform in color, shape, and size. Splendid for kraut making.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

Golden Acre Cabbage

Late Varieties

77 **PREMIUM LATE FLAT DUTCH.** A very superior strain of this well-known, popular Cabbage which is exceptionally reliable for main crop planting. It is short stemmed; has rather large early leaves, very showy heads and produces uniformly large, flat, deep, solid heads of splendid quality. It is an excellent keeper and can be relied upon as thoroughly satisfactory.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

78 **LARGE LATE DRUMHEAD.** One of the oldest and most popular of late sorts, producing large, rounded heads. It has been grown for many years and ours is an improved stock. The heads are somewhat more globe-shaped than the Late Flat Dutch. Leaves large, loose, spreading. An excellent keeper.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

79 **DANISH BALLHEAD or HOLLANDER.** It produces very large, solid heads, which are globular in shape, has few but rather large, thick, bluish green leaves. Heads are borne on short stems, are of medium size, round, very solid and stand shipment better than any other late sort. It is one of the very best keepers and is much desired for kraut. Our stock is Denmark grown and very select.
Pkt., 10c; oz., 35c; ¼ lb., 95c.

81 **AMERICAN PERFECTION DRUMHEAD SAVOY.** Too little attention is paid to the Savoy Cabbage in this locality, as for home gardens it is unquestionably the most desired of all Cabbages. It is used almost entirely for late planting and attains its greatest perfection in flavor after frost, when it becomes as tender and even more delicious than cauliflower. The heads are of medium size, borne on short stems, and not as large as the ordinary late Cabbage, hence will stand closer planting. Our stock of this is American grown and will produce uniformly large heads for this variety. We strongly recommend it to be more extensively grown both for home use and market.
Pkt., 10c; oz., 30c; ¼ lb., 90c.

Chinese Cabbage

Also called "Celery Cabbage."

An ounce of seed will sow 40 to 50 feet of row, a packet 3 feet.

This vegetable of the cabbage family has become extremely popular. The large mid-ribs of the leaves are perfectly white and very crisp and tender. It is excellent when used as a salad, being of a very delicate flavor slightly resembling raw cabbage but more delicious. It is so easily raised that everyone who has a garden should enjoy it.

The seed should be sown not earlier than the first of July in rows 2½ feet apart, and the plants thinned 18 to 20 inches apart in the rows. If sown early it soon runs to seed and is useless. The crop matures in 8 to 10 weeks.

83 **CHIHLI.** This is the earliest variety of Chinese Cabbage and heads more evenly than any other kind. The heads are pointed, very firm, and when matured are often 18 inches long, blanched pure white inside and are of very fine quality. Chihli is rapidly superseding the older varieties, as the attractive heads sell readily, making this a very profitable crop to grow. Our strain of Chihli is very uniform.
Pkt., 10c; oz., 35c; ¼ lb., 95c.

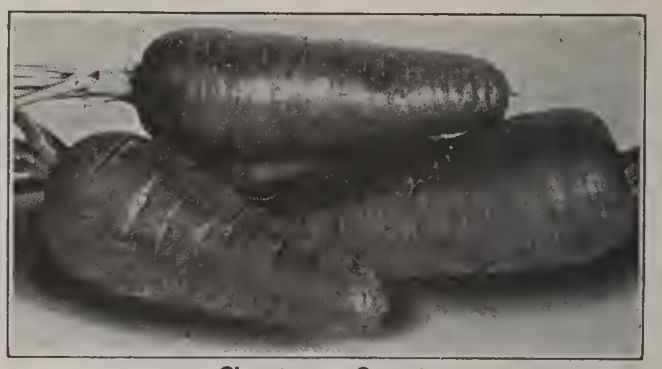
CARROTEN (Ger.)

CARROTS

CAROTA (It.)

An easily grown, useful and most healthful vegetable which should come into more extensive use. They add flavor to soups and meats, besides being healthful, delicious and to an extent ornamental, and should be more largely used. In addition to their table uses, they make excellent pickles, and any that are left over are nutritious food for all kinds of stock and poultry.

Culture. Carrots do best in rich, light loamy soil, and where the soil is shallow or stiff, select the short growing varieties, rather than the longest rooted sorts. For early crop sow in March; for main crop in April or May, in rows 18 inches apart, cultivating and weeding as soon as the plants are up. Continue in cultivation until maturity. Cover the seed half an inch deep and see that the soil is pressed firmly, thin 4 to 6 inches apart. **Ounce sows 300 feet of row; 2 to 4 pounds per acre.**



Chantenay Carrots

88 OXHEART (or Guerande). A short, thick growing variety, especially adapted to stiff or hard soils. Roots 4½ to 5 inches long, very thick, ending abruptly in a small tapering root. Flesh bright orange, finest quality, an excellent sort for market, home use and fine for stock feeding and poultry.
Pkt., 10c; oz., 15c; ¼ lb., 35c.

89 CHANTENAY. A medium early variety, orange-red color, crisp and tender. Roots smooth, thick, 5½ to 6 inches long, uniformly stump rooted but tapering slightly. One of the best in quality and productiveness for either home garden or market and especially desirable for heavy soils, because it can be harvested easily.
Pkt., 10c; oz., 15c; ¼ lb., 35c.

90 IMPERATOR. Award of Merit, All-America Selections 1933. Fine variety for home use. Sloping shoulders and semi-blunt end; 7 to 8 inches long; rich orange color with indistinct core.
Pkt., 10c; oz., 15c; ¼ lb., 35c.

91 HALF-LONG DANVERS. A deep orange, tender variety, producing roots of medium length, 6 to 8 inches long, tapering uniformly to a blunt point. They are very productive and well adapted to nearly all classes of soil for main crop planting.
Pkt., 10c; oz., 15c; ¼ lb., 35c.

92 IMPROVED LONG ORANGE. A well-known popular sort, well adapted for loamy or deep soil, on which are produced very large crops. Roots deep orange color, usually about 12 inches long, 3 inches in diameter at the crown, tapering to a point. An excellent sort for table use, markets and particularly adapted for stock feeding. Roots tender and of good quality.
Pkt., 10c; oz., 15c; ¼ lb., 35c.

Early Snowball Cauliflower

CAULIFLOWER

BLUMENKOHL (Ger.)
CAVOLOFLORE (It.)

One of the most delicious vegetables in cultivation but on account of its difficulty in growing, not so general in the average garden as it should be. Anyone, however, can be reasonably sure of success if good seed is obtained and the cultural instructions given below followed.

Culture. For early spring or summer crop sow the seed in January or February in hotbeds. When the plants have four leaves, transplant to cold frames for development. Toward the end of March or early part of April, set in open field and cultivate the same as cabbage. If the soil gets very dry, water well when possible. When the plants are set in the garden, the ground should be rich; if not so, a little sheep manure or well-rotted manure should be worked into the soil before the plants are set out. The plants should be thoroughly worked during the growing season and when the heads commence to form, the leaves should be tied over the flowers to protect from the sun and make them white. For fall use sow at the same time as late cabbage and treat in the same manner. Cauliflower will not head in very hot weather—hence for fall use, too early sowing is not desirable.

One-fourth ounce produces about 500 plants. Three ounces will make enough plants to set 1 acre.

Cauliflower plants Supplied in Season. Early Snowball and Early Dwarf Erfurt. We do not send these plants by mail.

96 EARLY SNOWBALL. Unquestionably the earliest maturing strain of short leaf type of Cauliflower. It is well adapted for forcing or winter use for early crop and is one of the most popular of all sorts, both for the market gardener and for home use. The plants are compact, leaves small, and can be adapted for close planting. Produces large size, pure white flowers, of most excellent quality. Our strain is of selected Denmark grown and can be relied on as one of the most satisfactory of all.
Pkt., 25c; ¼ oz., 60c; oz., $1.75.

BLEICH (Ger.)

CELERY

SEDANO (It.)

Culture. For the earliest crop the seed should be sown in hotbeds from the middle of February to the end of March. For main crop sow in open ground March or April, according to the weather, in rows 15 inches apart. The seed is sometimes slow to germinate, and in dry and hot weather water well. Careful weeding by hand will have to be done until the young plants get started. Seed sown in beds should be transplanted. When the plants are set in the open field, trim the tops off and put in rows about 5 feet apart, setting plants 6 to 8 inches apart. Cultivate constantly during the growing season, and as the crop matures it must be earthed up or blanched. Sometimes this is done by placing two boards upright, close to the plants and filling in dirt both on the sides and between the plants. The stalks are handled by hand but the soil must not be allowed to get in the center. Sometimes Celery is set in beds about 4 feet wide, 6 inches beween plants, and 12 inches between rows, the earth being thrown out on each side of the bed. Then as it grows it is earthed in for blanching. An ounce of seed produces about 3,000 plants.

99 IMPROVED WHITE PLUME. An extra early and very handsome sort which is very popular with market gardeners, especially for very early crop. Leaves are light, bright green at the base, shading nearly white at the tip. As plants mature, the inner stem and leaves turn white and consequently require less earthing and blanching before they are in condition to use for market.
Pkt., 10c; oz., 30c; 2 ozs., 50c.

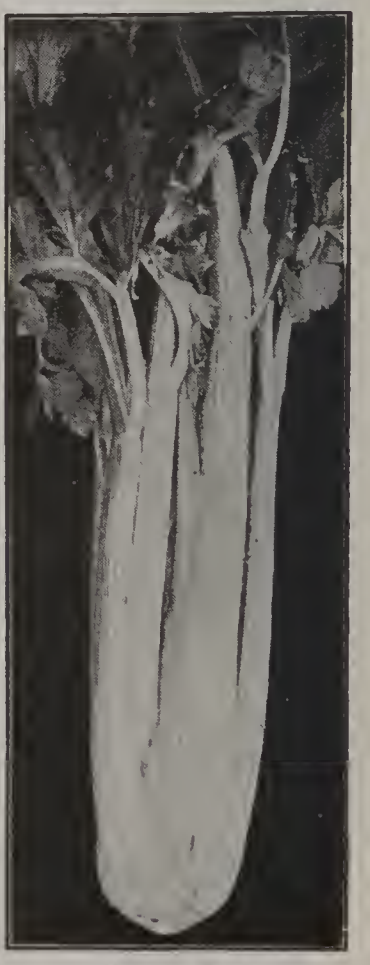
100 GOLDEN PLUME or WONDERFUL. Early and very desirable for home and market garden. Plants medium sized; stocky, full hearted and compact; thick, solid stalks blanch readily and are of the finest table quality.
Pkt., 10c; oz., 50c; 2 ozs., 90c.

101 GOLDEN SELF BLANCHING. This is not only a very early variety but one of the best for home use or market. It is not quite so early as White Plume but so much finer quality that it is generally preferred as a main crop sort. Plants are medium size, compact and stocky, with yellowish green foliage. As they mature, the inner stem turns a beautiful golden yellow color and blanching is easily accomplished. Being of handsome color, very crisp, tender, free from stringiness and of fine flavor, it is the leading sort grown.
Pkt., 10c; oz., 50c; 2 ozs., 90c.

102 GIANT PASCAL. A green leaf variety of the Golden Self Blanching type, and one of the best for fall and early winter use. It blanches a beautiful yellowish white, is very solid and crisp and has a fine nutty flavor. Stalks of medium height, thick, solid, flattening towards the base and one of the best for main or late planting.
Pkt., 10c; oz., 30c; 2 ozs., 50c.

103 CELERIAC or TURNIP-ROOTED CELERY. Used for its roots only, which have a fine, sweet, nutty celery taste. It is used either boiled or raw, has a delightful flavor and can be used in soups, salads or as a table vegetable. Culture about the same as for celery.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

Celery Plants supplied in season, (June, July and August). We do not send these plants by mail.



Golden Plume Celery

Collards

One of the most popular Southern vegetables; largely used in place of cabbage. It is hardier and easier to grow than cabbage, can be grown on poorer soil and withstands insect attacks better. Although often sown during the spring and summer, the principal sowings are made in June, July and August, transplanted 2 feet apart in the row and given frequent cultivation. A most excellent vegetable for the late fall, winter and early spring. The flavor is improved by frost. Cultivate like late cabbage.

105 TRUE GEORGIA or SOUTHERN. Stands cold weather and adverse conditions splendidly and grows on land too poor to make a crop of cabbage.
Pkt., 10c; oz., 15c; ¼ lb., 35c.

ZUCKER-MAIS (Ger.)

SWEET CORN

MAIS (It.)

Our Northern Grown Sweet Corn is far superior in quality and earliness to the same varieties raised from seed grown in the south and west where most of the sweet corn seed is grown.

One pound plants about 200 hills, 12 to 14 pounds to an acre. For succession, plant about every 2 weeks from April to the end of July; ready for the table 60 to 90 days from planting.

Culture. Garden-Field varieties can be planted at the end of March or early in April. Sugar or Sweet Corns are more tender and should not be planted until warm weather is settled and the ground becomes warm. Cultivate frequently and keep the ground free of weeds.

Yellow Varieties

108 GOLDEN CROSS BANTAM. Large, tender, luscious. This variety was introduced jointly by the United States Department of Agriculture and Purdue University Agricultural Experiment Station. Highly resistant to Stewart's disease and very prolific. Stalks sturdy, about 6 feet high, with exceptionally broad, dark green leaves. Ears measure 7½ to 8 inches in length, 10- to 14-rowed, slightly lighter yellow than Golden Bantam. Kernels medium in width and depth. This hybrid is extremely uniform in plant and ear characteristics and in maturity.
Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., $2.00.

109 GOLDEN BANTAM. Selected Northern Grown. The most popular variety of yellow Sweet Corn ever offered; also one of the earliest and hardiest. It can be safely planted earlier than other varieties. The plants rarely grow over 8½ feet in height, and usually bear at least 2 ears, 5 or 6 inches long, on each stalk. Many people assert that Golden Bantam is the sweetest of all Corns; its plump, rich, cream-yellow kernels are tender, milky and delicious. All our Golden Bantam seed is northern grown, making it especially valuable for early planting.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

110 WONDER BANTAM. There has been an ever-increasing demand for an early Sweet Corn having all of the good qualities of Golden Bantam Sweet Corn, together with a larger ear and having about the same maturing season. To accomplish this, Wonder Bantam has been introduced by the crossing of Early Wonder and Golden Bantam Sweet Corn. The stalks grow from 5 to 6 feet in height and have ears 8 to 10 inches in length filled with 8 rows of rich, golden colored kernels. It is a variety that will appeal to the critical market and home gardener.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

111 GOLDEN SUNSHINE. The earliest of the Golden Bantam type, maturing a week to 10 days earlier than that variety. More dwarf in habit than Bantam, with ears 6½ inches long, containing 12 rows of broad, yellow, sweet grains. Especially desirable for its extreme earliness.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

112 GOLDEN GIANT. It excels all other early varieties of Corn in size, productiveness and quality; and all the late varieties in quality and early maturity while equaling them in size.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

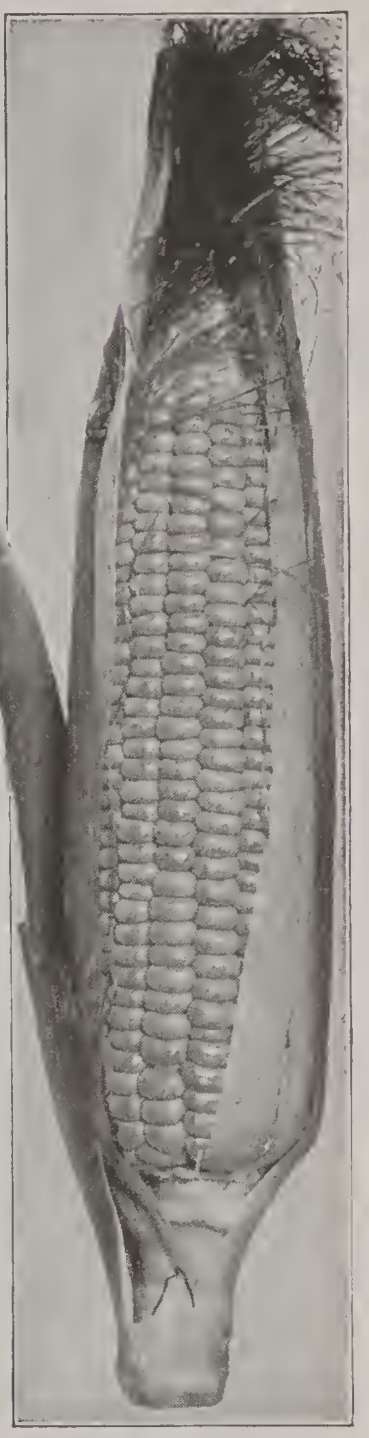
113 BANTAM EVERGREEN. A cross between Golden Bantam and Stowell's Evergreen and is a most excellent sort of fine quality. The ears average 8 inches long and are 12-rowed, the grain is rather broad and deep and of a rich golden yellow color.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

White Varieties

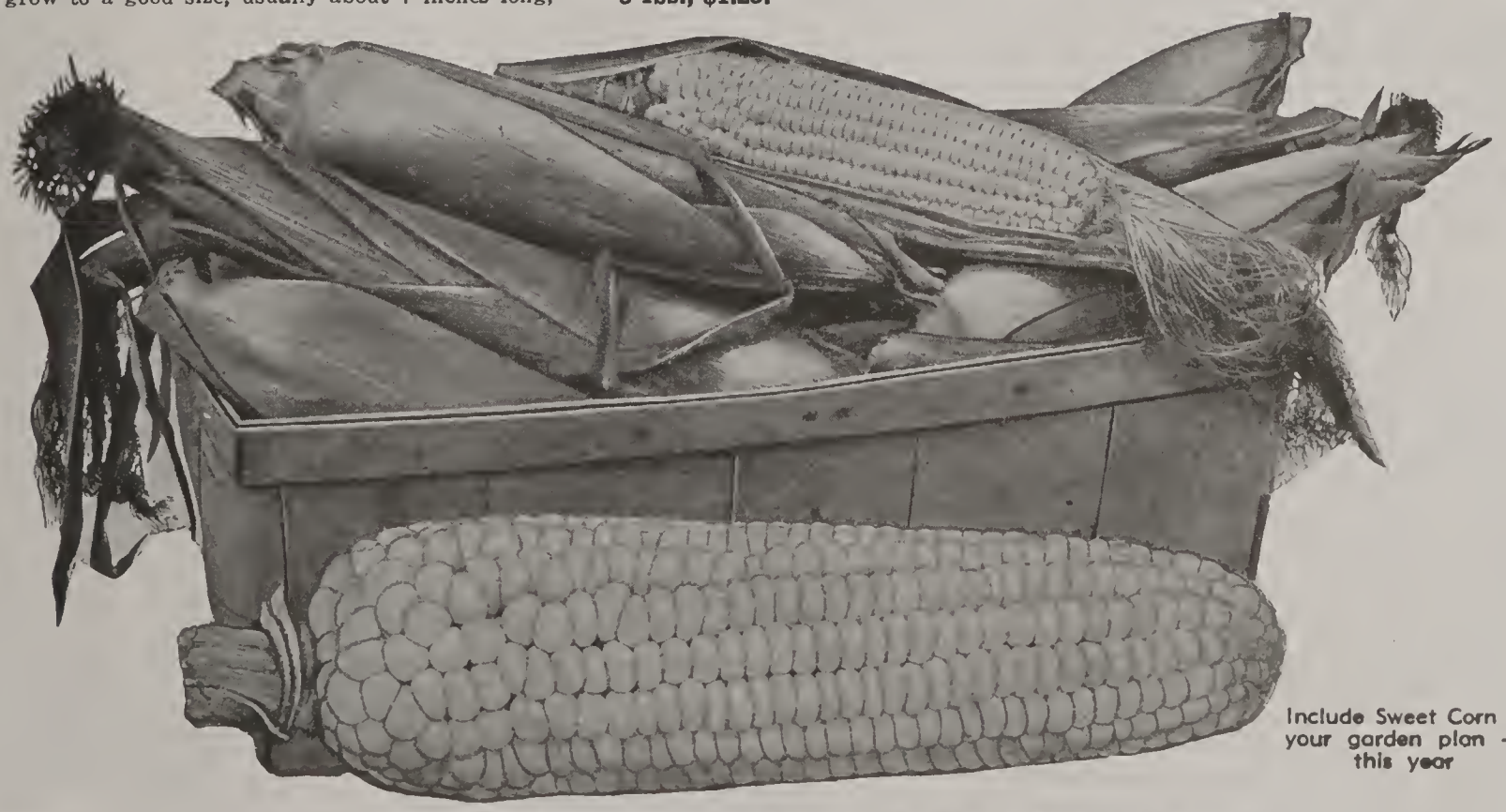
115 WHIPPLE'S EARLY WHITE. Of the narrow-grained Evergreen type, but ready for use much earlier. Ears 8 to 9 inches long, 16 to 18 rows of pearly white grains. The chief distinction of this variety is that it is by far the earliest of the narrow-grained Evergreen types and has a larger sugar content.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

116 EARLY EVERGREEN. An early strain of Evergreen of great value. This variety resembles the Stowell's Evergreen, but is ready for use much earlier and remains in good condition equally as long. The ears grow to a good size, usually about 7 inches long, and contain from 16 to 18 rows of deep, sweet grains.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

118 BLACK MEXICAN. For home use we consider this one of the best second early sorts where tenderness and sweetness are the qualities most desired. The stalks grow about 6½ feet high, producing ears usually 8 inches long and 8-rowed. The dry grain is dark bluish black. The ripe Corn on the cob is also bluish black, but if used young, this Corn cooks remarkably white. This is an interesting variety.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

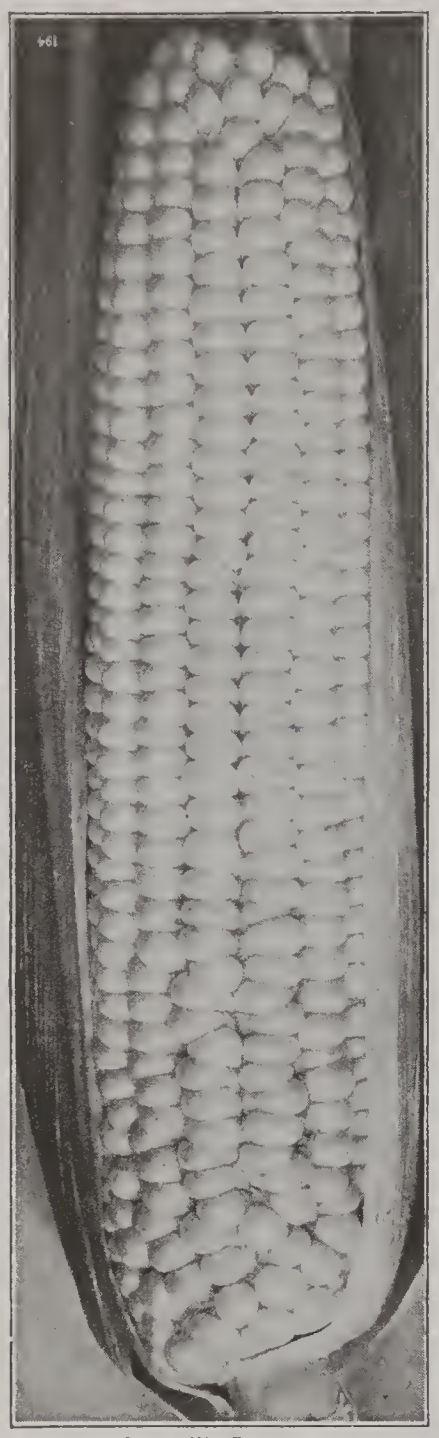


Golden Cross Bantam



Include Sweet Corn in your garden plan — this year

ALL 10c PACKETS ARE 3 FOR 25c; ALL 15c PACKETS ARE 2 FOR 25c



Stowell's Evergreen

SEED CORN TREATMENT REDUCES DISEASE DAMAGE. Seed disinfection with Improved Semesan, Jr., will help greatly to prevent damage by diseases to the roots, stalks and the ears of field and sweet Corn. It protects seed against rotting, permits earlier planting, increases germination, controls blight and increases crop yields.

WHITE VARIETIES OF SWEET CORN—Continued.

120 HOWLING MOB. A popular, productive, large-eared variety; valuable for home and truck gardeners. Ears measure 7 to 9 inches in length, 12 to 16 rows; white grains. Stalks strong, of vigorous growth, 5 to 6 feet in height, have abundant foliage and usually produce 2 good ears to the stalk. **Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.**

Sweet Corn, Main Crop

121 COUNTRY GENTLEMAN. Probably the most popular of all sorts for home gardens on account of its sweetness, tenderness and delicious flavor. Ears 7 to 8 inches long, round, medium size. Grains zig-zag or staggered, small in size but set close on the cob and very deep.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

122 STOWELL'S EVERGREEN. One of the standard main crop sorts which has long been popular with commercial growers and canners, and is one of the best for home gardens. It is hardy, thrifty, productive, very tender and sugary, and remains in edible condition longer than most other sorts. Ears 8 to 9 inches long, having 16 to 18 rows of very deep grain. Stalks sturdy and erect.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

123 ZIG-ZAG EVERGREEN. A development of the Stowell's Evergreen which has become very popular. The rows instead of being straight are irregular; the grains set very close on the cob. Ears are 8 inches long, large grains, very deep, sugary, tender and of fine flavor. This is becoming a very popular sort and in many sections is superseding the well-known Stowell's Evergreen.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

124 LATE MAMMOTH. The largest and latest of all Sugar Corns, producing ears which are about 11 inches long, 16 to 18 rowed. Grains are broad, somewhat short but of good flavor, sweet, tender and delicious. One of the best sorts for late crop, especially for market.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

125 CLUB ZIG-ZAG EVERGREEN. A late variety of Zig-Zag Evergreen Corn, the ears are generally twice the size in diameter of any other sort and of a fine, sweet flavor.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

Garden - Field Varieties

These are not Sugar Corns but valuable for their hardiness as they can be planted earlier and will mature quicker than Sugar Corns—hence, usually very profitable for market gardeners.

126 EXTRA EARLY ADAMS. The earliest variety and extensively used for first early table corn in the South. Stalks about 4 feet high with few leaves and without suckers. Ears short, very full, 12 to 14 rows, kernels white and smooth; an extremely hardy sort; can be planted close together and is usually popular.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

127 EARLY ADAMS. A little larger and later sort of about the same characteristics as Extra Early Adams. Stalks about 6 feet high, ears 12 to 14 rows and a good variety for second early or very late planting.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

128 TRUCKERS FAVORITE. A late variety of the Adams type; ears 9 to 10 inches long, 14- to 16-rowed. Has dual value in producing good crop of feed corn if roasting ear market is unfavorable.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

POP CORN

A very profitable crop in many sections and grown in enormous quantities. It is popularly "the boys' crop" and all gardens should have a small quantity.

129 WHITE RICE. ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.
130 WHITE PEARL. ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.
131 SOUTH AMERICAN LARGE YELLOW. ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

FELDSALAT (Ger.) CORN SALAD VALERIANNT (It.)

An excellent salad for winter and spring. The seed is sown in August or September, in drills 1 foot apart. Press on the soil to make it firm and it will germinate better. As freezing weather approaches, cover with straw or coarse litter. Seed can also be sown very early in the spring if on rich soil.

132 LARGE SEEDED. Round leaved, the best variety.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

GURKEN (Ger.) CUCUMBERS CETRIOLO (It.)

One ounce plants 50 hills; two pounds to one acre. Plant in April or May for early crop; ready for the table 50 to 75 days from planting.

Culture. Rich soil or one containing plenty of well-rotted manure is best; hence hills are usually made about 4 feet apart using manure or sheep manure well mixed with the soil. For very earliest crop the seed may be started in hotbeds, in pots, small paper boxes, or pieces of sod, grass side down, so that they can be readily transplanted to open ground without disturbing the roots. For earliest crop outdoors plant 8 to 10 seeds in hills or drills 4 feet apart. On cold nights or threatened frost they can be protected by pieces of paper weighted with earth; after danger of frost and destruction by insects, thin the plants to about four to the hill. For late crop plant from the end of May until July. Cultivate occasionally, keeping the grass and weeds out, and when the fruit is ready for use, pick whether wanted or not, as it will extend the life and productiveness of the vines.

133 STRAIGHT EIGHT. 1935 All America Gold Medal Award. One of the finest new Cucumbers which has been offered in many years. As its name indicates, it grows very straight; a long slender fruit with a slight taper at each end. At the edible stage, the length averages about 8 inches and the color is a rich dark green. This is a very attractive Cucumber and the fine quality makes it an excellent sort for slicing.
Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., $1.50.

134 LONGFELLOW. The Longfellow is a White Spine type, developed so that it would have the slender, dark green appearance of a hothouse cucumber but which could still be grown outdoors. Vines are vigorous and productive. Fruits 12 to 14 inches long and 2½ inches in diameter. Can be grown in the garden or greenhouse and stands shipping well.
Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., $2.00.

135 IMPROVED EARLY WHITE SPINE. One of the best sorts for table use and probably the most popular sort grown by market gardeners and truckers. The vines are vigorous, producing fruit early and abundantly. Fruits are uniformly straight, about 8 inches long, vivid green color changing to and streaked a whitish green at the tip.
Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.

136 IMPROVED LONG GREEN. One of the most popular sorts for home gardens and in country districts for home markets. Fruits are very long, often 12 inches, slender and uniformly dark green color. It is rather late maturing. The vines are very vigorous and fairly productive. The matured fruits are excellent and tender for table use and both large and small can be used for pickling.
Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., $1.50.

137 DAVIS PERFECT. A development by crossing the Improved Long Green with an English frame variety. It is dark, rich green color, slightly tipped with white at the end; has very few seeds and is excellent for slicing. Fruits are often 12 inches long, very slim and showy. Particularly fine for home gardens.
Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.

Longfellow

CUCUMBERS—Continued.

138 **EARLY FRAME.** A well known, short, green variety, producing quite abundantly, uniformly straight, moderate sized fruit. Valuable for very early planting or for pickling as it is more prolific than the large fruited sorts.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

139 **EARLY FORTUNE.** The finest type of White Spine yet introduced. Early and very productive; fruits grow 9 inches long, slightly tapering, flesh white, firm and crisp with very few seeds; color dark green. Quality is excellent either when sliced for use at the table, or for making pickles.
Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.

140 **CHICAGO PICKLING.** A very prolific variety good both for pickling and slicing. The young fruit is short, straight, square ended and medium deep green in color. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

141 **JERSEY PICKLING.** A variety shorter than Long Green, slender and produces very abundantly. Vines are vigorous and productive. A very popular main crop sort for market and commercial uses.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

143 **NICHOL'S MEDIUM GREEN.** A variety intermediate in length between the White Spine and Long Green, producing straight, medium sized cylindrical fruits of dark green color, which are most excellent for slicing and extremely popular for pickling. Vines vigorous, productive. A very profitable variety for canners and commercial growers for late crop.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

144 **EARLY GREEN CLUSTER.** Short and prickly; bearing in clusters; prolific; fine for bottling.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

145 **WHITE WONDER.** Fruit, produced in clusters, is symmetrical, short, blocky and rounded at both ends; color ivory-white from time of forming until maturity; moderately productive.
Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., $1.50.

Jersey Pickling Cucumber

DILL

DILL (Ger.) **ANETO (It.)**

A packet will sow 10 ft.; an ounce 50 ft. of row.

146 Dill is an annual herb used for seasoning pickles, sauces, soups, etc. It is so easily grown that every garden should have a short row of this valuable herb.
Pkt., 10c; oz., 15c; ¼ lb., 35c.

EGGPLANT

EIERPFLANZE (Ger.) **MELANZANI (It.)**

A well known popular vegetable which produces large purple fruits. It is served mostly fried. Seed germinates slowly and should be started in hotbed.

One ounce produces 1000 plants; four ounces will produce enough to set one acre. Ready for table in 120 days from sowing.

Culture—Sow in February or March in warm hotbeds. When plants have two rough leaves, transplant to 3 or 4 inches apart or into small pots; after all danger of frost is past, about the middle or end of May, transplant to the garden, setting plants about three feet apart each way. Shade young plants from hot sun.

148 **BLACK BEAUTY.** Ten days to two weeks earlier than New York Improved Purple. Fruits slightly longer and darker than this variety, being rich dark purple, large and symmetrical. It is very desirable for market as it holds its color a long time. It is entirely free from spines; splendid for early crop or very late planting.
Pkt., 10c; ½ oz., 30c; 1 oz., 50c; ¼ lb., $1.25.

149 **NEW YORK IMPROVED PURPLE (Spineless).** This has long been a general favorite both for market gardeners and home use. It is the largest variety in cultivation and one of the best. The plant is robust, usually producing 4 to 6 large, oval fruits of splendid dark purple.
Pkt., 10c; ½ oz., 30c; 1 oz., 50c; ¼ lb., $1.25.

Plants—Ready in May. We do not send these plants by mail.

New York Improved Purple Eggplant

ENDIVE

ENDIVIEN (Ger.) **ENDIVIA (It.)**

One of the best salads for fall and winter use, and sometimes used for greens, flavoring soups and stews. It may be grown at any season but is more generally planted for fall.

Culture. For early use, sow about April 15th; for later use, sow in June or July, in drills 18 inches apart, and when large enough thin out to about one foot apart. When nearly grown, tie the outer leaves together over the center in order to blanch up the heart. By covering fresh plants every few days a succession may be kept up. **One ounce to 100 feet of row.**

150 **GREEN CURLED.** One of the hardiest and best varieties for general use. It has deep green leaves, beautifully cut and curled and is easily blanched; is very crisp, tender and of fine flavor.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

151 **BROAD LEAF BATAVIAN (Escarolle).** A variety having broad, more or less twisted, waved, bright green leaves with thick white midribs. It is much larger in growth than other sorts and has a flavor all its own. The inner leaves form a very solid, clustering head; are blanched a beautiful deep, creamy white; crisp; tender and of fine flavor. Very highly esteemed by the French and popular wherever used.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

152 **MOSS CURLED.** A compact growing variety forming large dense clusters, finely divided, medium green leaves. When properly blanched is rich creamy white and tender. An ornamental variety for salads.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

153 **WHITE CURLED.** Plants 12 to 13 inches in diameter; leaves finely curled, with broad ribs slightly rose tinged. Creamy white at the heart. Handsome in appearance and of fine flavor; excellent for salads.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

GARLIC

KNOBLAUCH (Ger.) **AGLIO (It.)**

Used for flavoring. The bulbs are divided into "cloves" or flakes and set out like onion sets about 4 inches apart in the row, and covered 2 inches deep. When the tops die down take up the bulbs and dry in a shady place. **Bulbs only.**
¼ lb., 20c; 1 lb., 60c.

LEEK

POREE (Ger.) **PORRO (It.)**

Leek is a kind of onion that does not form any bulb, but grows in a long stem, which is blanched by drawing earth around it. When blanched it makes an appetizing salad, or is eaten like green onions. Boiled they are more delicate in flavor than the mildest onions. Seed is sown in the spring and the leek is ready to use in the fall. If given a little protection with dirt it will last over winter and give a very welcome addition to the early spring menu.

170 **LARGE FLAG.** The most extensively used of the strong growing types. It is broad leaved, with rather short but very thick stems, and uniform, and of fine quality.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

KALE or Borecole

BLATTERKOHL (Ger.) **CAVOLO VERDI (It.)**

A popular crop for fall, winter and spring use as "greens." In addition to its table use it is a splendid soil improver and very nutritious as a grazing crop for cattle, hogs or sheep.

Culture. In this section it is usually sown broadcast from the middle of August to the middle of October at the rate of **3 or 4 pounds to the acre.** Scotch Kale is sown earlier and when very early is usually sown in drills. In the spring, seed can be sown in February, March and April. Spring sown Kale requires **5 to 6 pounds to the acre** and Smooth Kale should have **6 to 8 pounds to the acre.** The ground should be prepared cleanly and harrowed as finely as possible. Seed can be covered with a smoothing harrow or roller but not covered too deep.

164 **DWARF GERMAN GREENS.** An old standard winter variety in this section. Leaves numerous, large, frilled and waved; color is a bluish green. When properly cooked, make a very palatable dish of greens. In this locality, will stand the winter.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

165 **DWARF SIBERIAN.** A vigorous growing sort of spreading habit, its green foliage having a distinctive bluish tinge or bloom. Very hardy and a favorite in many sections for greens and extensively grown for forage.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

166 **DWARF GREEN CURLED SCOTCH.** A finely curled, spreading, low growing variety, which is very popular around many trucking centers, especially in the east. The leaves are attractive, bright green color and beautifully curled, which makes it excellent for garnishing. It must be sown earlier than other sorts; usually from July until end of August or can be sown in March. Can be sown either in drills or broadcast.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 85c.

167 **TALL CURLED SCOTCH.** Leaves green, beautifully curled and wrinkled—grows about 2 feet in height; hardy, being improved by frost.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 85c.

KOHL-RABI

KNOLLKOHL (Ger.) **CAVOLO RAPA (It.)**

A vegetable intermediate between a cabbage and a turnip which combines the flavor of both. It forms a turnip-shaped bulb above ground which is boiled and served like turnips. If used when young, is tender and a very desirable vegetable.

Culture. For early use sow in hotbeds and transplant. Out-of-doors sow in open ground the first part of April in rows 18 inches apart; thin out or transplant to 6 inches apart in the row. Cultivate same as cabbage. It can also be sown the latter part of June or in July for fall use. **One ounce will sow 300 feet of drill.**

168 **EARLY PURPLE VIENNA.** Very early with small tops, bulbs good size. A variety of good quality.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

169 **EARLY WHITE VIENNA.** An excellent sort for general use, has white tender flesh of pleasant flavor.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

KOPFSALAT (Ger.)

LETTUCE

LATTUGA (It.)

The smallest of home gardens can easily grow plenty of Lettuce. By making successive sowings and using the Lettuce as it is thinned, a supply can be had throughout the season from just a few rows in the garden.

Lettuce seed germinates quickly and may be planted as soon as the ground can be prepared in the early spring. Sow seed in rows 15 to 18 inches apart, covering not more than ½ inch deep.

To grow good head Lettuce, the conditions necessary are rich soil, plenty of moisture, and steady growth from the time the seeds are planted until the heads are ready to use. A check in growth from lack of nourishment or moisture usually means no head. The most satisfactory results come from growing Lettuce in cool weather. The plants should be thinned to 10 inches apart in the row and thorough cultivation given to keep down the weeds and conserve moisture.

One ounce sows about 250 feet of row; 3 pounds for 1 acre.

Grand Rapids Lettuce

Curled or Loose-Leaved Varieties

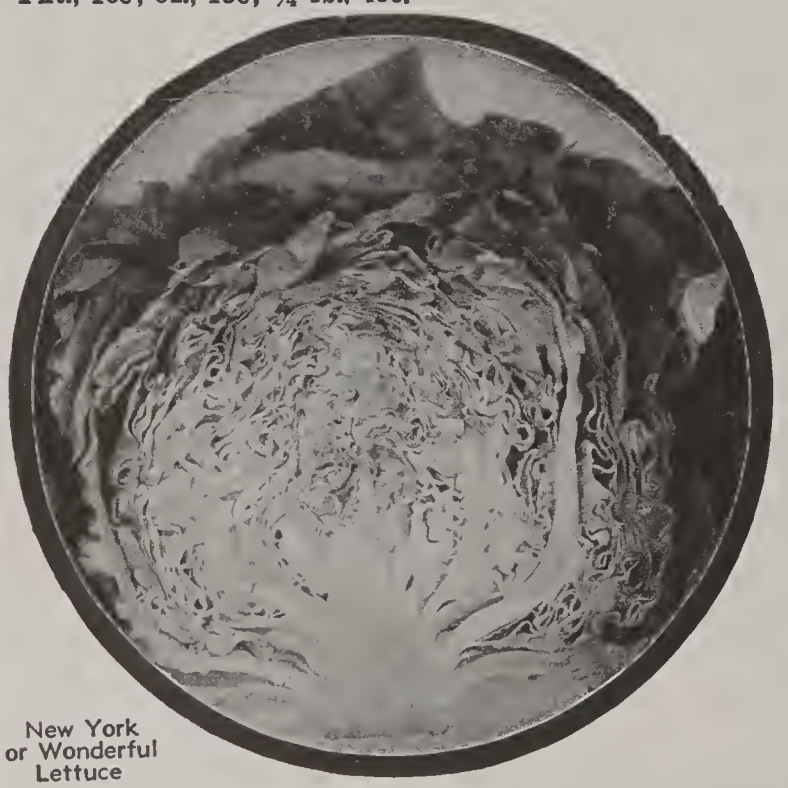
172 **BLACK SEEDED SIMPSON.** The best sort for nearby markets and for home gardens on account of its superior quality. It forms a large, loose head, very bright green, nearly white and is exceedingly tender. Is largely used for forcing under glass and a superior sort for earlier crop. **Pkt., 10c; oz., 15c; ¼ lb., 40c.**

173 **GRAND RAPIDS.** Special forcing strain. The most popular variety for greenhouse forcing, especially for shipping. It is of quick growth, hardy and not liable to rot; remains in good condition several days after being fit to cut. Plants are upright and uniform; leaves finely crumpled at the edges. It is the heaviest loose-headed sort, will stand shipping better and is a very attractive variety. **Pkt., 10c; oz., 15c; ¼ lb., 40c.**

174 **EARLY CURLED SIMPSON (White Seeded).** Makes a large, loose curled head similar to Black Seeded Simpson. Particularly adapted for sowing thickly and cutting when the plants are young. Leaves light green, slightly frilled, much blistered, crisp, sweet, and tender. **Pkt., 10c; oz., 15c; ¼ lb., 40c.**

175 **EARLY CURLED SILESIAN.** An old and very popular variety which is probably the earliest and quickest sort grown. Plants loose, not quite so large as Black Seeded Simpson. Popular for outside. **Pkt., 10c; oz., 15c; ¼ lb., 40c.**

176 **EARLY PRIZE HEAD.** A large clustering, non-heading sort, most excellent for home gardens as it is very early. Leaves broad, crumpled, and frilled; outside leaves tinged red, inner leaves entirely green; very crisp, sweet, and tender. **Pkt., 10c; oz., 15c; ¼ lb., 40c.**



New York or Wonderful Lettuce

Cabbage or Heading Varieties

178 **ICEBERG.** A beautiful Lettuce, with large, curly leaves of bright, light green, with a very slight reddish tint at the edges. Handsome heads, unusually solid because of the natural tendency of the large, strong leaves to turn in which also causes thorough blanching. Crisp, tender and fine flavor. **Pkt., 10c; oz., 15c; ¼ lb., 45c.**

179 **TOP NOTCH.** A distinctly improved variety of Big Boston and one of the very best for forcing or out-of-door culture. Under favorable conditions the heads will measure 10 to 12 inches across; are bright, lively green color with the brownish marking of Big Boston. The heart and inner leaves are pure white. It is deliciously flavored, very tender, of splendid quality and highly recommended for extensive market growing or home use, as it will be found thoroughly reliable in heading and the most profitable of this type. **Pkt., 10c; oz., 15c; ¼ lb., 45c.**

180 **BIG BOSTON.** This has long been a favorite sort with market gardeners and truck growers and in some sections is planted almost exclusively. It forms a large, compact head, forces well in frames and is thoroughly satisfactory for outdoor crops in the spring or very late head crops in the fall. Leaves are broad, comparatively smooth, color bright, light green. The heads are slightly tinged with reddish brown. **Pkt., 10c; oz., 15c; ¼ lb., 45c.**

182 **IMPROVED HANSON.** A splendid summer heading sort and probably the most popular of its class in this section. The plants are compact, forming a large cabbage-like head which remains in good condition a long time. The outer leaves are yellowish green, somewhat crumpled with a large, distinctive mid-rib, the inner leaves white, sweet and tender. This variety is a little coarse in quality, but on account of its large size and general reliable summer heading qualities, is profitable and desirable for summer use. **Pkt., 10c; oz., 15c; ¼ lb., 45c.**

183 **NEW YORK or WONDERFUL.** This variety is raised in California and shipped to Eastern markets as "Iceberg." Crisp, tender and free from bitterness. It produces immense heads, often 15 to 16 inches across and weighing enormously. The interior is beautifully blanched, creamy white, crisp, tender and delicious. It is a very large, robust growing variety, rooting deeply, resisting hot, dry weather, very slow to run to seed and a sure header under most trying conditions. **Pkt., 10c; oz., 20c; ¼ lb., 60c.**

MELONE (Ger.)

MUSKMELON or CANTALOUPE

POPONE (It.)

One ounce plants 50 hills; 2 pounds to 1 acre. Plant in May for early crop; in June for late crop.

It's Not Hard to Raise Melons

It is much easier to raise melons than is usually supposed and they are so delicious a fruit that every one who has any garden at all should raise some. All that is required is a good rich, well-manured soil, that is not too heavy, and a warm, sunny situation.

Culture. Seed is planted in hills 6 feet apart, putting 10 to 12 seeds to the hill and covering 1 inch deep. If land is not rich, use well-rotted manure or a little sheep manure mixed with the soil. When danger of insects is over, thin out to 4 plants to the hill.

Green Fleshed Varieties

187 **ROCKY FORD or NETTED GEM.** The flesh is green, thick, with small cavity, very sweet and has that spicy flavor that makes a Cantaloupe so delicious. The melons are oval-shaped, slightly ribbed, well covered with fine netting and are uniform in size and shape. **Pkt., 10c; oz., 15c; ¼ lb., 40c.**

188 **OHIO SUGAR.** The flesh is an attractive green of fine texture, sugary, juicy, tender, and free from stringiness. It is round, inclined to oval, distinctly ribbed and netted. Because of its firm flesh and solidity, it is a splendid shipper. **Pkt., 10c; oz., 15c; ¼ lb., 40c.**

189 **EXTRA EARLY HACKENSACK.** Two weeks earlier than the Large Hackensack and produces medium sized fruit, somewhat flattened, evenly deep ribs with coarse netting. The flesh is green, slightly tinged with yellow, juicy, and sweet. **Pkt., 10c; oz., 15c; ¼ lb., 40c.**

190 **LARGE HACKENSACK (or Turk's Cap).** An old and well-known sort which produces very large, green-fleshed fruits which are nearly round and flattened. Flesh green, thick, juicy, and sweet. **Pkt., 10c; oz., 15c; ¼ lb., 40c.**

191 **HONEY DEW.** Its name has been well chosen, as it is about as sweet as honey. The average size is about 6 inches in diameter, and it weighs 5 to 6 pounds. The skin is smooth with a little netting and of creamy yellow when ripe. The flesh is beautiful green next to the outside rind shading to light green at the center. It is very thick, fine grained, and can be eaten almost to the rind and the seed cavity is quite small. **Pkt., 10c; oz., 15c; ¼ lb., 45c.**

MUSKMELONS—Continued.

Orange Fleshed Varieties

193 BENDER'S SURPRISE. Exquisitely fine flavor, large size and earliness combine to make this new melon a great favorite. The melons are of oval shape; flesh deep orange, very thick, deliciously sweet and of high flavor. Grows fairly large, weighing up to 10 pounds each. The melons are very firm, keep for a week after being picked.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

195 GOLDEN CHAMPLAIN or LAKE CHAMPLAIN. Earliest of the orange-fleshed melons; 75 to 80 days. Nearly round, slightly flattened at ends, 5 to 6 inches in diameter. Usually slightly ribbed and covered with an open, moderately coarse netting. The flesh is fairly thick, orange-salmon in color, juicy and very sweet. When fully ripe, the fruits show a golden color through the netting. A very good early market and home garden variety.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

196 HALE'S BEST. Since its introduction, this variety has displaced some of the older popular favorites by its outstanding merit. An early melon, ripening in 75 to 80 days. The nearly round fruits are normally 6 to 6½ inches long, densely covered with a medium heavy netting and almost devoid of ribbing. The flesh is very thick and fine grained, deep salmon-pink in color, richly flavored.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

197 HEARTS OF GOLD or IMPROVED HOO-DOO. A new orange-fleshed variety, ideal as a shipping melon and of the very finest quality. Fruits uniformly of medium size. Rind thin yet very firm. Flesh very thick, firm, of fine texture and delicious flavor.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

198 HONEY ROCK or SUGAR ROCK. The best recent introduction; originating in Indiana. Its extreme earliness is not the least of its valuable qualities. It is of medium size with a slate-gray rind and coarse, rope-like netting. It has a thick, pink flesh and a small seed cavity. The flavor is excellent.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

199 OSAGE or MILLER'S CREAM. A medium salmon-fleshed melon of excellent quality. Fruits are oval, dark green, slightly ribbed, tinged with grey. Flesh salmon color, thick, and highly flavored. A splendid sort for late or main crop, especially for the market.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

Melons Are Not Hard to Raise

200 TIP TOP. A popular sort with market gardeners, producing very large sized melons, ribbed but almost smooth skin. Flesh salmon, very deep, a little coarse but exceedingly sweet and luscious. Especially desirable for very rich soil and one of the most profitable for market.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

201 BANANA. A long, smooth-skinned variety, growing somewhat in the shape of a long squash. Fruit about 12 inches long, salmon flesh, which is very sweet, luscious and tender. Much esteemed in some localities.
Pkt., 10c; oz., 15c; ¼ lb., 45c.

WASSER-MELONE (Ger.)

WATERMELONS

COCOMERO D'ACQUA (It.)

Watermelons do best on old, rich soil, which is not too freshly manured, hence when making the hills, well-rotted manure should be used, and it is better to prepare them some time ahead before planting the seed. If manure cannot be obtained, use good commercial fertilizer or sheep manure mixed with the soil.

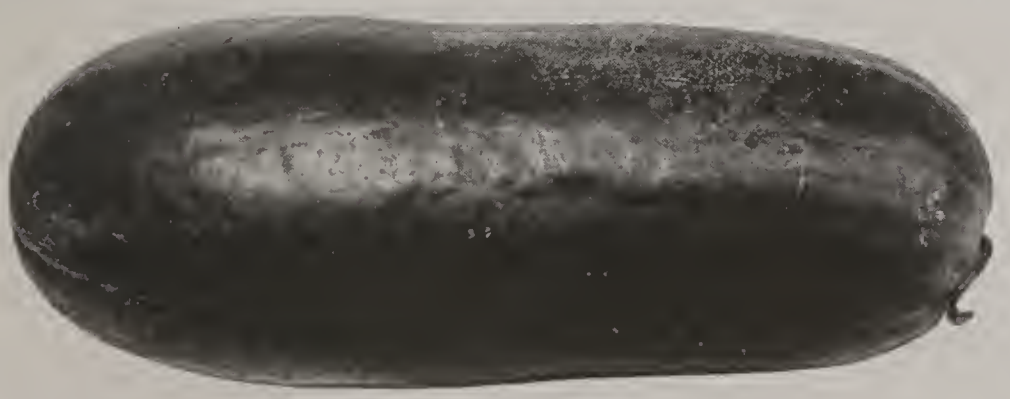
One ounce plants 20 hills; 4 pounds per acre. Plant early in May or for later use, in June.

Culture. Treat as for muskmelons, but give more room, 10 to 12 feet apart each way.

202 IMPROVED KLECKLEY'S SWEET No. 6. A Wilt-Resistant Watermelon. This new strain marks a distinct advancement toward the development of the popular Watermelons where soil disease is serious. An improved Kleckley's Sweet type which has proven almost fully resistant to fusarium wilt. It is dark green, of good length with deep red flesh and white seeds.
Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.

204 COLE'S EARLY. A sure cropper for northern states. Its dark red flesh is delicate in texture; rind green, striped with lighter shades, thin and brittle; of medium size, and nearly round. Matures early, especially good for home use.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

205 STONE MOUNTAIN. A melon of finest quality and claimed to be the sweetest of all of the large melons. It is almost round and has a dark green, medium thick rind. Flesh rich scarlet. It is not unusual to grow Stone Mountains weighing 70 to 80 pounds. For home use and nearby markets it is unexcelled.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.



Improved Kleckley's Sweet No. 6

206 EXCEL. Will produce more large, marketable melons under the same conditions than any of the other sorts of the long variety and its carrying and keeping qualities are unsurpassed. Fruits oblong in shape, dark green in color with tracings of light green. Flesh deep red, crisp and tender. Weight, 35 to 60 pounds.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

207 TOM WATSON. A long, dark green melon, which has become exceedingly popular on account of its large size and general fine qualities. Vines are vigorous and productive. Flesh rich bright red, very juicy and sweet. Most suitable for nearby markets, family gardens, and a favorite with truckers, as it stands shipping well and retains its color and good quality a long time.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

208 KLECKLEY'S SWEET. One of the best flavored melons in cultivation and one of the best for home use or nearby markets. It is long, very dark green with thin rind. Flesh deep red, of fine, delicious flavor. **Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.**

209 FLORIDA FAVORITE. A well-known popular sort which has long been a favorite for home use and market. Ripens early, has dark green rind, striped with light green. Flesh light crimson, exceedingly sugary, fine and tender. Very delicious and highly recommended either for home market or family use.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

210 FORDHOOK EARLY. The fruit is of good size, rather short and blocky in form, with large diameter. Skin dark green, occasionally with faint stripes of lighter green. Rind quite thin, but skin tough, making an excellent shipping variety. Flesh bright red, crisp, sweet, and of splendid quality.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

211 SWEETHEART. A very popular shipping sort particularly in the south. Fruits are very large, oval, very heavy with thin rind which is of light green color, slightly veined with darker shade. Flesh bright red, firm, very sweet, and the fruits remain in condition a long time after ripening. A splendid sort for market or main crop, being of fine appearance and sells readily.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

Dixie Queen Watermelon

WATERMELONS—Continued.

212 **DIXIE QUEEN.** A leader for home gardens, local markets, and for shipping. Fruits nearly round with light and dark green stripes; thin, tough rind; flesh deep scarlet, crisp and sweet. Medium to large size, and very uniform. The few seeds are white.
Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.

213 **PEERLESS or ICE CREAM.** A splendid early sort for home or market gardens. Vines moderately vigorous, hardy, and very productive. Fruits are oblong, medium size, bright green, finely veined with darker shade. Flesh bright scarlet, crisp and very sweet.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

214 **GREY MONARCH or LONG LIGHT ICING.** Fruits uniformly long and large, oblong in shape. Color light green slightly veined with darker shade; flesh deep rich red, of splendid quality.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

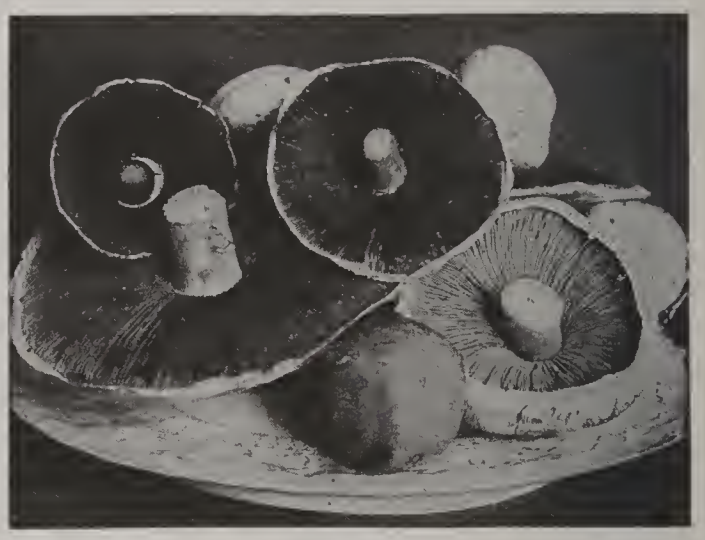
215 **GEORGIA RATTLESNAKE.** Also called Gypsy. One of the most popular of the older sorts especially in the south. Fruits are large, very long, of light green color distinctly striped and blotched with darker shade. In the south it is very highly esteemed and especially desirable for growing and shipping. The rind is remarkably thin though very tough; hence, it stands shipping well. Flesh most tender, sweet and luscious. Fruits are uniformly good quality.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

216 **HALBERT'S HONEY.** A long, dark green Melon of moderate size but such splendid quality that it is especially desirable for market or home use. The rind is very thin. Flesh bright crimson and so crisp and tender that ripe Melons will split ahead of the knife in cutting. We especially recommend this for general planting as it is very productive, of excellent quality and a splendid seller.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

217 **IMPROVED STONE MOUNTAIN No. 5.** A new strain fully resistant to wilt. It is an improvement over the regular type of Stone Mountain. An unusually early melon, of uniform size, with deep red flesh and solid heart. It is recommended for home use and in localities where wilt is serious.
Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.

218 **DARK ICING.** A round or oval shape which has been a favorite for home use and nearby markets. Melons are medium size, oval, dark green in color with bright red flesh which is extremely tender and sugary. A splendid early sort and highly desirable for home or early market.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

219 **IRISH GREY.** The size is uniform and large. Color of rind yellowish gray and it is almost as tough as that of Citron. Ripens earlier than Watson and will keep in good condition for a long time after picking. Very prolific and a good shipper. A fine market sort.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.



Mushrooms

MUSHROOM SPAWN

Mushrooms can be grown in cellars, sheds, under benches in greenhouses, or in hotbeds. They are also planted outside in pasture or sod. It is a very profitable crop both for forcing or a field crop. Our cultural instructions are somewhat limited but we can furnish a booklet of more extended information on "Success with Mushrooms." Price, 25c.

One brick will spawn about 10 feet square.

Culture. In preparing a Mushroom bed, take three parts of fresh stable manure, free from straw, and one part of good pasture soil. Mix thoroughly together and let it stand until the heat has sunk to about 90 degrees. Make the bed from this mixture about 4 feet wide, 8 inches deep and any desired length. As soon as the temperature of the bed is about 70 or 80 degrees, the Spawn may be inserted in pieces about the size of a walnut, and 6 inches apart each way. When the Spawn is diffused through the whole bed, which will be in about 10 days from planting, cover with 2 inches of fine loam and press down firmly. Over this place a layer of straw about 4 inches thick. Do not water unless the surface gets extremely dry, and then only with water at a temperature of 80 degrees. When gathering the crop, twist them off at the roots and do not use a knife. Cover the hole with soil to keep insects away from the root.

ENGLISH MUSHROOM SPAWN. Well known and popular. Put up in bricks weighing about 1¼ pounds.
Per brick, 35c; 3 bricks, $1.00. Postage extra.

Southern Giant Curled Mustard

MUSTARD

Mustard greens are as healthful and nourishing as spinach. The leaves of Mustard are more tender, and the stems are not so long and coarse. The plants are in condition for use as soon as the leaves are the size of one's hand.

Culture. Sow broadcast or in drills 12 inches apart in March or April or in the fall in September or October. Cut when 3 inches high. One ounce sows about 80 feet of dill. An acre requires 4 to 6 pounds.

220 **FORDHOOK FANCY or OSTRICH PLUME.** This beautifully curled Mustard is very handsome in appearance and of very mild, pleasant flavor. The leaves are curled and fringed, and the plant remains longer without running to seed than other kinds.
Pkt., 10c; oz., 15c; ¼ lb., 35c.

221 **MUSTARD SPINACH or TENDERGREEN.** A desirable, quick-growing, tender variety with long, broad, fairly smooth leaves of dark green; white mid-ribs; slow to seed.
Pkt., 10c; oz., 15c; ¼ lb., 35c.

222 **SOUTHERN GIANT CURLED.** A large growing sort with succulent, pungent leaves of sweet flavor. The best variety for use as greens.
Pkt., 5c; oz., 10c; ¼ lb., 25c.

223 **WHITE.** Used for greens and the seed largely used for pickles and flavoring.
Pkt., 5c; oz., 10c; ¼ lb., 25c.

It is only in the home garden, where there is no loss of time from garden to table. You too, can have garden fresh vegetables, with unexcelled table quality.

GROW WHAT YOU EAT.

OCHER (Ger.)

OKRA or GUMBO

OCRA (It.)

Okra pods are used in soups, stews, catsup and other relishes. They are at their best when 1 to 3 inches long. Rapidly becoming a most popular vegetable.

Culture. Sow in drills 2½ feet apart after the weather has become settled and warm. Thin out to 18 inches apart in rows. To keep for winter, slice the pods when young in narrow rings and string or hang in the shade to dry.

One ounce sows about 50 feet. Ten pounds per acre. Plant in April or May. Matures in 60 to 70 days from planting.

224 **WHITE VELVET.** An early maturing and very productive variety growing about 3½ feet high. Pods white, long, smooth, and very tender. This is not so deeply ribbed as the green sorts and is very popular in some sections. **Pkt., 10c; oz., 15c; ¼ lb., 35c.**

225 **DWARF PROLIFIC.** One of the most popular sorts in the South, growing 3 feet high, producing large pods, deeply ribbed, tender and of fine flavor. **Pkt., 10c; oz., 15c; ¼ lb., 35c.**

226 **PERKINS' MAMMOTH.** Plant dwarf; is very attractive. Produces long, slender, deep green pods which remain tender a long time. **Pkt., 10c; oz., 15c; ¼ lb., 35c.**

Perkins' Mammoth Okra

ONION SETS

There are three distinct classes of these. **Potato or Hill** Onions can be planted in the fall from August to November and produce green spring onions, large Onions, and sets. **Perennial or Egyptian Top** Onion sets are planted in the fall and produce green spring Onions early in the spring. **Bottom Sets** or regular Onion sets of commerce are small onions which were previously grown from seed. These set out early in the spring or in the South in the fall, produce one large Onion from each set, towards the end of June or first of July. Pickling Onions (which are a larger size bottom set) are used in some localities for fall planting to produce early green spring Onions. All Onion sets are hardy and can be set in the open ground as early as the weather will permit. They are usually planted in rows 15 inches apart—4 inches apart for small sets and 6 to 8 inches apart for potato sets. Potato Onion sets can also be planted in the spring. It takes about 16 bushels of bottom Onion sets per acre, and 20 to 25 bushels of potato Onion sets, according to the size and distance apart.

Prices of Onion sets are subject to market changes. Prices on application.

Ohio Yellow Globe Onion

ZWEIBEL (Ger.)

ONIONS

CIPOLLO (It.)

One of the most nutritious and healthful of vegetables, having excellent medicinal qualities and most useful for flavoring salads, soups, meats, etc. It can be produced easily from either sets or seed and is one of the most satisfactory vegetables in the garden.

Culture. Growing Large Onions from Seed. Seed is sown in rows 15 inches apart as early in the spring as ground can be worked and covered about one-half inch deep. When 2 or 3 inches tall, the young plants can be thinned to prevent crowding. They can be thinned again when 6 or 8 inches tall, and the plants removed can be used as green onions. After that, they can be pulled as needed, and those that are left to become fully ripe can be stored for winter. One ounce sows 125 feet of row, 6 pounds of seed per acre.

230 **LARGE RED WETHERSFIELD.** A splendid red variety, very popular in the East. Bulbs somewhat flattened, thick and very large. Skin deep purplish red, flesh white tinged with purple, moderately fine grained, strong but pleasant flavor. It is medium early and well suited to rich soil. Is a good keeper and productive. **Pkt., 10c; oz., 25c; ¼ lb., 75c.**

231 **YELLOW GLOBE DANVERS.** One of the most extensively grown yellow Onions. Bulbs are of large size, uniformly globe shape with small necks. Ripen evenly. Flesh creamy white, crisp and excellent flavor. Onions have a yellow coppery color, showy and handsome. **Pkt., 10c; oz., 25c; ¼ lb., 75c.**

232 **OHIO YELLOW GLOBE.** A very much esteemed and popular sort grown extensively in this state. Particularly suited to rich soils. Onions somewhat more flattened at the base than Yellow Globe Danvers and more blunt at the top. Color rich yellow tinged with orange. Flesh, creamy white, mild, and of fine flavor. One of the best for main crop planting and shipping as it is an excellent keeping sort. **Pkt., 10c; oz., 25c; ¼ lb., 75c.**

233 **PRIZETAKER.** The true Prizetaker is globe shape, has pale yellow skin and white flesh, which is very mild and of delicate flavor. It is strictly "fancy", and will be found on fruit stands during the fall, where it is sold as Spanish Onion. No sets are required, as the large Onions are grown the first year from seed sown during early spring. **Pkt., 10c; oz., 25c; ¼ lb., 75c.**

234 **RIVERSIDE SWEET SPANISH.** A very large globe-shaped, light yellow Onion with small top and an exceptionally fine shipper. It is a Spanish variety resembling Prizetaker, which has quickly become very popular. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

235 **SILVERSKIN or WHITE PORTUGAL.** A well-known and favorite variety making medium size Onions of mild flavor with beautiful, clear white skin. Largely used for sets and pickling Onions. Mature 10 days earlier than White Globe. Bulbs are nearly round when of bunching size but somewhat flattened when mature. One of the best flattened sorts for general use. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

236 **WHITE GLOBE.** A fine early or main crop sort for home gardens. Flesh is firm, fine grained, white, mild and more desirable for cooking than the yellow or red sorts. Bulbs are globe shape, full at the shoulder, round at the base, keep well; a good market variety. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

PARSLEY

PETERSILIE (Ger.) **PREZZEMEOLO (It.)**

Easily grown and useful for so many purposes, such as garnishing, seasoning salads and for ornamental purposes. Grown in the garden as edging it is both ornamental and profitable.

Culture. Seed is sown in rows ½ inch deep and one foot apart. Cover firmly but not deep. As it is slow to germinate, usually taking 3 to 4 weeks, soaking in water is desirable. One ounce sows 150 feet of drill. For winter growing it can be sown or transplanted to cold frames or to hotbeds and is usually profitable.

239 **CHAMPION MOSS CURLED.** A beautifully curled and crimped variety which is much preferred. It is vigorous, compact in growth and excellent for garnishing—a handsome decorative plant. One of the most popular for market and home gardens. **Pkt., 10c; oz., 15c; ¼ lb., 35c.**

240 **HAMBURG or ROOTED.** This produces an edible root resembling a small parsnip both in color and shape. Flesh white, flavor similar to Celeriac. Foliage is about the same as plain Parsley. Roots are extensively used for flavoring soups and stews and can be dug late in the fall and stored in sand for winter use. **Pkt., 10c; oz., 15c; ¼ lb., 35c.**

241 **PLAIN.** A hardy variety having very dark green leaves which are flat, deeply cut but not curled. It is a little stronger in taste and much esteemed for flavoring soups and stews, as well as for drying. **Pkt., 10c; oz., 15c; ¼ lb., 35c.**

PASTINAKE (Ger.)

PARSNIPS

PASTINACA (It.)

This fine vegetable should be in every home garden. Parsnips grow best in a loose, rich sandy soil, but will make good roots in any soil that is reasonably rich and deep. Parsnips are improved by freezing, and a portion of the crop can be left in the ground and will supply a welcome addition to the winter vegetables.

Culture. Sow in April in drills 18 inches apart, covering lightly. When the plants are about 2 inches high, thin out from 4 to 6 inches apart. One ounce will sow 150 ft. drills, 5 to 6 pounds to the acre.

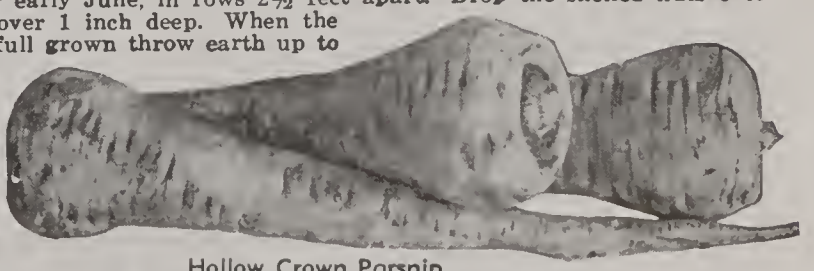
242 **LARGE SUGAR or HOLLOW CROWN (Guernsey).** One of the best and most popular varieties for the table. Roots long, uniform in shape, have a smooth, white skin, tender and of good quality. **Pkt., 10c; oz., 15c; ¼ lb., 35c.**

PEANUTS

Peanuts can be successfully grown in warm, sandy soil in a sheltered place with a southern exposure.

Plant in May or early June, in rows 2½ feet apart. Drop the shelled nuts 8 to 10 inches apart, cover 1 inch deep. When the plants are nearly full grown throw earth up to them. This will cause the nuts to form.

IMPROVED VIRGINIA. Large and very prolific. **Per lb., 25c; 5 lbs. or more, 20c per lb.**



Hollow Crown Parsnip

ALL 10c PACKETS ARE 3 FOR 25c; ALL 15c PACKETS ARE 2 FOR 25c

Peas, Maud S

ERBSEN (Ger.) GARDEN PEAS PISELLI (It.)

Plant Enough to Can

One of the most popular crops in the home garden. One pound sows 75 feet in a row; 120 to 180 pounds per acre. The earliest sorts can be planted just as soon as the ground is in condition to work. They are not injured by light frosts. Wrinkled varieties a little later as they are tender. For fall crop sow in August.

Culture. Peas succeed best in light, rich loamy soil. The early dwarf varieties can be planted in rows 2 feet apart. The tall varieties in rows 3 feet apart. The seeds should be planted at a depth of 1½ to 2 inches. All varieties growing more than 1½ feet high do better if staked up or otherwise supported when 4 to 6 inches tall. This support is usually given by sharpened branches of trees or sticks. Tall varieties yield more abundantly than dwarf. Cultivate and keep clean, working the earth toward the vines rather than away from them.

First Early Varieties

244 **MAUD S.** The earliest and most prolific Pea known. The pod is of a dark green color, of a full, round shape and of strong texture which especially fits it for shipping long distances. For a late fall crop it has few equals and is the market gardener's favorite for all seasons. The far northern point at which our peas are grown renders them almost proof against cold and the best for early spring or late fall crop. Thousands of market gardeners have pronounced this Pea unequalled in earliness, yield and regularity of growth. Make first planting as early in the spring as the ground will permit and cover well.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

245 **EXTRA EARLY.** One of the best strains of extra early peas; producing abundantly. Vines grow 2 to 2½ ft. high; pods 3 to 3½ inches long, well filled with fine delicious quality peas. Not only is this probably the earliest of all garden sorts but its yield is so abundant that it is the most profitable variety of all for market gardeners, in addition to being the best early sort for home gardens. Seed is white, smooth, medium size. Vines thrifty, vigorous, robust and extremely productive.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

246 **ALASKA.** A favorite sort with Southern truckers, producing long, straight pods which will stand shipping, and remain green longer than white seeded sorts. The seed is blue, medium size. Vines about 2½ ft. high, fairly vigorous and usually produce good yields. Pods long, straight and of attractive appearance. This has long been a popular sort, is of fair quality and well known.
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

247 **EARLY BIRD.** The earliest large podded, dwarf sort. Vines about 18 inches high, foliage light green, producing an abundance of single and double, curved, pointed medium-dark green, attractive pods of about 4 inches in length; contain 9 to 10 peas. Peas are tender and of excellent flavor.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

248 **GRADUS (or Prosperity).** One of the very best early wrinkled large Podded Peas. The pods are fully as long as Telephone. Vine similar in appearance and does not grow so tall, being of medium height, about 3 to 3½ feet. The pods are 4 to 4½ inches long, pointed, handsome and one of the most attractive of the early wrinkled sorts. Peas very large, splendid quality and a beautiful light green color. This has become one of the most popular varieties in cultivation.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

249 **THOMAS LAXTON.** A very popular gardener's variety. Height, 3 ft.; vine and foliage moderately stout, medium green; pods 3½ inches long, straight and square ended, containing 7 medium dark green peas of excellent quality. Extremely productive.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

250 **LAXTONIAN.** One of the largest podded of the dwarf wrinkled Peas. Pods are about 4 inches in length, of a beautiful dark green color, similar to Gradus in shape, of splendid quality and mature a little earlier. Vines average 15 to 18 inches in height, vigorous, productive and have dark green foliage.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

251 **LITTLE MARVEL.** An extra early dwarf wrinkled sort particularly suited to home gardens. Vines average 15 to 18 inches high; vigorous, dark green foliage. Pods 3 inches long, round with blunt ends and often contain seven rich, dark green peas of high quality.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

252 **AMERICAN WONDER.** A favorite dwarf, early, wrinkled Pea which is highly esteemed and splendid for family use. Vines about 9 inches to 1 ft. high, covered with well-filled pods, medium size, about 2¾ inches long, containing 5 to 8 large, exceedingly sweet, tender peas.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

253 **LAXTON'S PROGRESS.** Produces the largest pods of any of the early dwarf varieties. Vines average about 18 inches in height. The large dark green pods are borne in abundance and are well filled with extra large tender peas of superior quality.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

INOCULATION FOR PEAS

Excellent results will be obtained by treating the seeds of Peas with NITRAGIN INOCULATOR before planting. It can be easily done. We have it put up in convenient size for small gardens. (See page 53).

ALL 10c PACKETS ARE 3 FOR 25c
ALL 15c PACKETS ARE 2 FOR 25c

254 **NOTT'S EXCELSIOR.** A few days later than the American Wonder. Pods about one-quarter larger. It is remarkably hardy and can be planted almost as early as smooth sorts. Height, 1 to 1½ ft One of the best for home gardens and profitable for market gardeners
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

255 **PREMIUM GEM.** This has long been a favorite among early dwarf Peas. It matures a little later than American Wonder, is somewhat taller in growth and a little more prolific. Vines vigorous and productive, growing 15 to 18 inches high; pods 2¾ inches long, crowded with peas of fine quality.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

Midseason Varieties

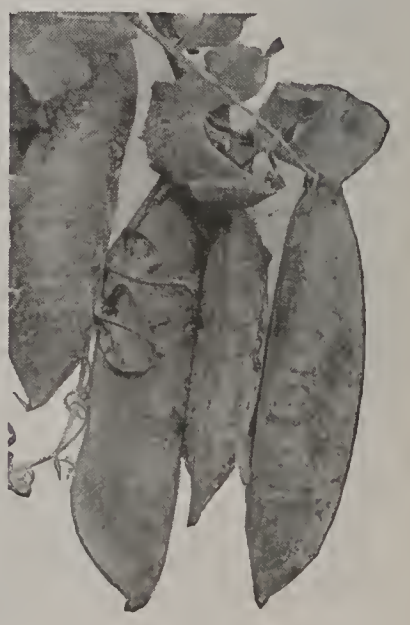
257 **DAISY or DWARF TELEPHONE.** Similar in general characteristics to the well-known Telephone. Pods 4½ to 5 in. long, dark green; peas large, of superior quality, tender and sweet. Vines 3 ft. high.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

258 **ALDERMAN.** This is really an improved Telephone, and is by far the best variety of this type. Yields more than any other variety. The pods resemble Telephone, but are larger and better filled, while the vines are of more robust growth and more prolific. Height from 4 to 5 feet. For best results the vines should be given some support. The pods are immense, often 5 inches long and contain 8 to 10 large peas.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

259 **IMPROVED TELEPHONE.** One of the leading Peas with market gardeners on account of its vigorous, tall growth and productiveness. Vines about 4 ft. high, foliage light green, producing an abundance of pointed pods, very large and light green. Peas large, tender, very sweet, excellent flavor. A splendid sort for home gardens and profitable for market.
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., $1.25.

Edible Pod Varieties

These varieties have all the sweetness and flavor of fresh green Peas. When the pods are partly filled, they are prepared like snap beans; when the seeds have developed, they are eaten as shelled peas.



260 **MAMMOTH MELTING SUGAR.** Pods very large, 4½ inches long, broad, curved and twisted. When young, they are very tender, stringless and fine flavored. Vines are tall, 4½ to 5 ft. high, with light foliage; are very strong growing and prolific. We strongly recommend more extensive planting of these fine quality peas.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

261 **DWARF GREY SUGAR.** Pods 3 inches long, light green in color, heavily curved. Vines are about 28 inches tall. A prolific variety and best of the dwarf edible podded peas.
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., $1.35.

PFEFFER (Ger.)

PEPPERS

PEPERONI (It.)

Peppers are not difficult to grow. For earliest yields sow in hotbeds and transplant to the open ground in May. Cover seed very lightly and keep the soil moist. Plants should be set about 15 inches apart in rows 2½ feet apart. If the peppers are kept picked before they turn red, the plants will produce great numbers during the season. One ounce produces about 1,000 plants.

California Wonder Pepper

263 **SUNNYBROOK.** A tomato-shaped, sweet, red pepper of much merit. Fruits smooth, upright, 3 inches in diameter by 2½ inches in depth, with thick, mild flesh.
Pkt., 10c; oz., 40c; 2 ozs., 65c.

264 **CALIFORNIA WONDER.** Resembles Chinese Giant in the large size and blocky form of its fruit, but having an extremely thick flesh not possessed by that variety. Fruit crimson, measuring 4½ inches in length by 4 inches in diameter, mild and sweet.
Pkt., 10c; oz., 50c; 2 ozs., 90c.

265 **HARRIS' EARLY GIANT.** A very large, sweet Pepper. Plants produce enormous yields and the peppers mature earlier than any other very large kind. Fruits are 5 inches high and 3½ inches through; deep green turning to brilliant red. Flesh thick and of a very sweet, pleasant flavor. This will be found a very valuable pepper for the home garden and a profitable one for market.
Pkt., 10c; oz., 50c; 2 ozs., 90c.

266 **CHINESE GIANT.** An enormous variety sometimes attaining 6 inches in diameter. It is very even in shape, flesh thick and sweet. Very handsome and of superior quality for stuffing. Plants are vigorous and fairly prolific. Very highly recommended for home use and one of the most profitable to grow for market purposes.
Pkt., 15c; oz., 55c; 2 ozs., $1.00.

267 **LARGE BELL or BULL NOSE.** A large, early sort of mild flavor. Plant vigorous, 2 feet high, very productive, and ripens its crop early and uniformly. A splendid sort for salads, mangoes and for stuffing purposes. Color deep green which becomes bright crimson when ripe.
Pkt., 10c; oz., 40c; 2 ozs., 65c.

268 **RUBY KING.** A very large and attractive sort, deep green color when young, bright red when ripe. Flesh thick and mild flavor. One of the best table sorts.
Pkt., 10c; oz., 40c; 2 ozs., 65c.

269 **RUBY GIANT.** A variety of Mango Pepper, which is of a desirable size and shape for stuffing. A cross of Ruby King and Chinese Giant, grows to large size and is very mild.
Pkt., 10c; oz., 40c; 2 ozs., 65c.

270 **WORLD BEATER.** One of the best of the large varieties of Peppers. Fruits 4-lobed, 5 inches long and 3½ inches in diameter. Flesh thick, mild and very sweet. Rich deep red when ripe. Plants upright and very productive.
Pkt., 10c; oz., 40c; 2 ozs., 65c.

271 **HUNGARIAN YELLOW WAX.** An early variety that is larger and has thicker flesh than other hot Peppers. The fruits are 5½ to 6½ inches long and about 1½ inches in diameter, crumpled and hooked at the point. The color is waxy light yellow when young, changing to orange and then to bright red.
Pkt., 10c; oz., 60c; 2 ozs., $1.00.

272 **LONG RED CAYENNE.** A well-known medium early sort, having slender, twisted and pointed fruits about 4 inches long. Extremely strong and pungent, hence valuable for seasoning. Generally known as Lady Finger Pepper.
Pkt., 10c; oz., 40c; 2 ozs., 65c.

273 **SWEET MOUNTAIN (or Spanish).** Late maturing and an attractive sort. Fruits very large and long, frequently 7 inches in length and 2 inches in diameter; flesh mild, very thick and of excellent quality.
Pkt., 10c; oz., 40c; 2 ozs., 65c.

274 **GOLDEN DAWN.** A handsome, sweet, mild, yellow variety; fruit pendent, 1½ inches long and about the same in diameter.
Pkt., 10c; oz., 50c; 2 ozs., 90c.

275 **RED CHILI.** Pods about 2 inches in length, 1/3 to ½ inch in diameter, tapering to a sharp point. Exceedingly pungent, hence valuable for flavoring and for Tabasco Sauce. The small bright red pods are borne in great profusion, making it an ornamental plant for the garden.
Pkt., 10c; oz., 50c; 2 ozs., 90c.

276 **PIMIENTO.** The fruit is of good size, medium length and attractive color. The flesh is thick and solid, mild and of fine flavor. Desirable for salads and stuffed Peppers. The plants are vigorous and upright, about 2 to 2½ feet high, with short, broad, dark green leaves. The fruit is deep green when young, becoming deep red as it matures.
Pkt., 10c; oz., 40c; 2 ozs., 65c.

Select Seed Potatoes

CHOICE NORTHERN GROWN STOCKS

Prices on Potatoes are constantly changing, subject to market fluctuations. Please write for current market prices when ready to purchase.

Culture. Potatoes are planted in rows 36 to 40 inches apart, dropping the potatoes 12 to 16 inches apart in the rows. It takes about 1 pound of fertilizer to 30 or 40 feet of drill, 400 to 600 pounds per acre. It takes 9 to 12 bushels to plant an acre according to size of potatoes and distance of rows apart. Plant for early crop as soon as the ground can be worked into condition. For late crop, in July or 1st of August is best.

Many potato diseases, particularly the more important ones, such as scab, black leg, black rot, stem rot, etc., were formerly treated by the old-fashioned methods which required soaking of the seed for long periods and creating a disagreeable task.

The introduction of **Improved Semesan Bel** has vastly improved these conditions by giving the grower a modern, instantaneous and effective method of disinfection at a reasonable cost and far superior in all respects to even the best of those previously employed. See page 61.

EARLY OHIO. The most popular early variety. The tubers are oval, have few eyes, rather shallow. Smooth skin, white, slightly flushed with pink. It is an extra fine quality cooking potato, makes good sized yields and is a favorite in this section and many others, especially where planted in light and loamy soil.

IRISH COBBLER. This has become an exceedingly popular and profitable variety for growing for market. Tubers are oval with smooth white skin, have few eyes rather deep. Grows to large size and produces enormous yields. Vines are thrifty and a reliable heavy yield can nearly always be expected. An excellent sort for market purposes and produces good crops both early and late.

ALL 10c PACKETS ARE 3 FOR 25c
ALL 15c PACKETS ARE 2 FOR 25c

Green Striped Cushaw Pumpkin

KUERBIS (Ger.)

PUMPKIN

ZUCCA (It.)

A few hills of pumpkins should be in every garden. The quality of home-grown pumpkin is far superior to the canned product. In addition, they make excellent food for stock and can be grown among the sweet corn at practically no extra expense.

Culture. Generally planted in corn after the last working and gathered after corn has been shocked. For field crop, plant in May or June in hills 8 feet apart, about 8 to 10 seeds to the hill and cultivate until the vines get strong; then thin out leaving 2 or 3 of the strongest plants in each hill.

One ounce plants 20 hills. Two to three pounds to the acre.

280 **KING OF MAMMOTHS or POTIRON.** An enormous flattened variety sometimes attaining 60 to 90 pounds in weight. It is especially desirable for exhibition purposes, and will find ready sale in most large cities at good prices.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

281 **JAPANESE PIE.** Fruit medium size. Skin light yellow, covered with fine grained netting. Flesh salmon, very thick, sweet, fine flavor and one of the best sorts for cooking.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

282 **TENNESSEE SWEET POTATO.** Medium size of creamy yellow color with light green stripes. Flesh thick, fine grained, dry, brittle and of excellent flavor. Unsurpassed for pies and custards.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

283 **GREEN STRIPED CUSHAW.** Fruit fairly large with crooked neck. Skin creamy white with green stripes. Flesh yellow, very thick, rather coarse but sweet. A productive and popular sort in most sections.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

285 **LARGE CHEESE.** A popular sort in this section for table use and stock. Fruits somewhat flattened; skin mottled light green and yellow. Flesh yellow and of tender quality.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 55c.

286 **SMALL SUGAR or NEW ENGLAND PIE.** One of the best for the home garden. An excellent pie sort. Nearly round, 10 to 12 inches in diameter; rich orange color. Flesh thick, fine grained, very sweet.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 85c.

287 **CONNECTICUT FIELD.** Used for planting in corn, for stock feeding and also for making pies. Fruits often 15 inches in diameter; smooth reddish orange ribbed skin with orange-yellow flesh.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

288 **KENTUCKY FIELD.** Grown generally throughout the central section for stock feeding. Fruits very much flattened, creamy yellow color; flesh orange. Very productive.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 50c.

RADIES (Ger.)

RADISH

RAVANELLI (It.)

Finest Seed Stocks

One ounce sows 75 feet of drill. If broadcast requires 10 to 12 pounds per acre. For forcing in frames sow in January or February. Out-of-doors, sow from March to June for early summer crop. For late, sow from July to September. Early sorts mature and are ready for the table in 21 to 30 days from sowing.

Culture. Quick growth is essential for tender crisp radishes. Hence, rich soil and plenty of moisture are essential. They can be sown at intervals of 10 days to 2 weeks for early use or grown as a catch crop between rows of beets, lettuce, onions, etc.

Round Varieties

290 **EARLY WHITE TIPPED SCARLET.** One of the handsomest of the turnip varieties and a general favorite in nearly all large markets. It is excellent as a forcing sort or for earliest planting outdoors. Roots nearly round, slightly flattened on under side. Color very deep scarlet with distinctive white tip. Flesh white, of best quality. We strongly advise more extensive planting of this sort in this locality.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

Early White Tipped Scarlet Radish

Crimson Giant Radish

291 **EARLY WHITE TURNIP.** Similar to Early Scarlet Turnip but little more flattened and slightly earlier maturing. It has very small tops, is of thick growth, suitable for forcing or early planting. Color clear white; flesh crisp and tender.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

294 **FRENCH BREAKFAST.** A small olive-shaped variety about 1½ inches long, which is very quick growing. Color beautiful deep scarlet shading to white at the tip. Top small. Quick maturing and splendid for very earliest crop.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

295 **CRIMSON GIANT.** This variety is suitable both for forcing or early planting out-of-doors. A remarkable feature of this radish is that it will grow double the size of other round red forcing radishes and still remain solid. The ordinary forcing radish, after growing to the size of 2 inches in circumference becomes pithy, while the Crimson Giant will grow to 6 inches in circumference and still remain solid and juicy.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

296 **EARLY SCARLET TURNIP.** A well-known sort producing round or oval roots of bright scarlet color. Flesh white, crisp, tender. Tops medium, quick growth; desirable for early planting.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

297 **EXTRA EARLY SCARLET GLOBE.** One of the very best and most showy radishes for earliest forcing or growing outside. Roots are slightly olive shape, rich bright scarlet color; flesh white and tender. It is fit to pull very early and is especially desirable for market gardeners on account of the showy qualities.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

Long Varieties

298 **CINCINNATI MARKET.** A popular sort in this section and has long been a favorite with market gardeners. It is brilliant crimson with white slightly tinged flesh, exceedingly sweet and tender. Grows 6 to 7 inches in length, straight and smooth and does not become hollow and pithy until very old. A fine sort for either market or home use.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

299 **LONG SCARLET SHORT TOP.** An old standard sort, excellent for home garden or market. Tops short and small. Roots smooth, tender, uniform shape; attractive bright red color.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

300 **LONG WHITE ICICLE.** The earliest of the long white varieties which is popular for forcing and earliest outdoor or early summer crop. It is productive and of excellent quality, crisp and tender. Roots are usually 5 to 6 inches long and about ½ inch in diameter with small tops.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

301 **WHITE STRASBURG.** One of the most popular and desirable of all long, white radishes. Even when small it is fine quality; remains crisp and tender much longer than other varieties. Roots 1½ to 3 inches thick, 5 to 6 inches long, tapering. Tops medium; roots smooth, crystal white; handsome, showy, crisp and tender; desirable for market or family use.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 85c.

Fall Radishes

302 **LONG BLACK SPANISH.** A favorite late sort, producing long, thick, almost black roots, with white flesh of fine texture. Decidedly pungent but well flavored. Roots are usually 7 to 9 inches long, 2 to 3 inches in diameter and it is one of the best of the long sorts and especially adapted for winter use.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 85c.

303 **CHINESE ROSE WINTER.** A popular sort producing cylindrical roots, stub-rooted, blunt at both ends. Is bright, deep rose color shading to white. Skin smooth, flesh white, crisp, tender and pungent. Roots usually 4 to 5 inches long, 1½ to 2 inches in diameter. Splendid for fall and winter. **Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 85c.**

304 **WHITE CHINESE or CELESTIAL.** A large stump-rooted radish with white skin and flesh. Can be sown from July 1 to August 15, and will keep in prime condition a long time; mild in flavor, brittle and never woody. Fine for market gardeners.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 85c.

305 **CALIFORNIA MAMMOTH WHITE WINTER.** A giant fall and winter variety. Roots from 9 to 12 inches long and 2 to 3 inches through, tapering regularly to the tips, smooth and cylindrical in form; skin and flesh white, tender and crisp.
Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 85c.

306 **ROUND BLACK SPANISH.** Roots globe-shaped; 3½ to 4 inches in diameter; skin somewhat roughened, black; flesh white, firm, crisp, and pungent. **Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 85c.**

SAGE

SALBEI (Ger.) **SALVIA (It.)**

307 **BROAD LEAF.** An ornamental gray-leaved plant with blue flowers. Pick the leaves when half grown, dry, and powder them. An old favorite for flavoring meat and poultry dressings. Sow in the open ground. Thin plants to 6 inches apart. **Pkt., 10c; oz., 35c.**

SALSIFY

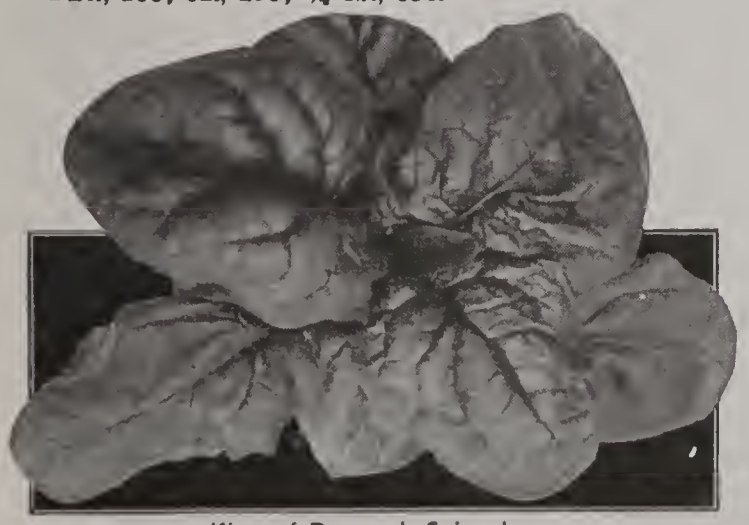
HAFERWURZEL (Ger.) **SASSEFRICA (It.)**

Often called "Oyster Plant" and is easily grown. A desirable winter vegetable which should be more extensively used throughout the Central States. Roots are palatable and can be served boiled or as fritters.

Culture—Sow in April in rows 18 inches apart, thinning out to 4 to 6 inches. Cultivate deeply and often. It is hardy and will remain out all winter, but if desired can be dug before winter and stored in earth or sand to keep it from wilting.

One ounce sows 75 ft.: 6 to 8 lbs. per acre.

308 **MAMMOTH SANDWICH ISLAND.** The best sort, which is much larger and a great improvement over the old-fashioned long sort.
Pkt., 10c; oz., 25c; ¼ lb., 65c.



King of Denmark Spinach

Cincinnati Market Radish

SPINACH

SPINAT (Ger.) **SPINACE (It.)**

Has long been one of the most popular of all greens and in some sections is grown in enormous quantities. In this locality Spinach is sown broadcast in March or April for early crop and from July to September for fall and winter crop at the rate of about 10 to 15 lbs. per acre. It can also be sown in drills 12 to 15 inches apart and cultivated.

One ounce sows 50 ft. of drill. 15 pounds per acre in drills. 20 pounds per acre, broadcast. One-half pound is sufficient for a medium garden.

309 **KING OF DENMARK.** This variety is superior to all others for spring planting, under the same circumstances, in the matter of standing a longer time before going to seed. Has an abundance of dark green leaves of large size and very much crumpled and of fine quality. It is fit for use in thirty days from sowing and remains in good condition fully 2 weeks after other varieties have started seed-stalks.
Pkt., 5c; ¼ lb., 15c; 1 lb., 40c.

310 **BLOOMSDALE SAVOY RESELECTED.** A very early sort especially desirable for fall use. Plant is upright, having glossy, thick, crumpled, pointed, green leaves. A favorite sort for market gardeners and truckers.
Pkt., 5c; ¼ lb., 15c; 1 lb., 40c.

311 **ROUND THICK LEAF.** One of the best sorts for spring sowing as it is somewhat slower to go to seed than Bloomsdale. Plant upright, vigorous; leaves large, thick, fresh bright green color.
Pkt., 5c; ¼ lb., 15c; 1 lb., 40c.

312 **BLIGHT-RESISTANT SAVOY.** A blight-resistant strain of the Savoy-Leaved Spinach developed at the Virginia Experiment Station, making it possible to grow Spinach successfully on infected soil.
Pkt., 5c; ¼ lb., 15c; 1 lb., 40c.

313 **NEW ZEALAND.** An especially desirable sort for summer use as it thrives during hot weather in any soil, rich or poor. It has tender shoots of good quality which may be cut throughout the summer. Plant becomes very large and spreading; leaves small, broad and pointed. Plant 3 or 4 seeds in hills 2 ft. apart each way. Germination will be hastened by soaking in warm water 24 hours before planting.
Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

ALL 10c PACKETS ARE 3 FOR 25c; ALL 15c PACKETS ARE 2 FOR 25c

Giant Summer Straightneck Squash

KUERBISS (Ger.)

SQUASH

CALLED CYMLING IN THE SOUTH

ZUCCA (It.)

Summer squash requires one ounce to 30 hills. Winter varieties one ounce to 15 hills and 3 to 4 pounds per acre.

Culture. Plant when the weather has become settled and the ground fairly warm. Bush varieties are planted 3 x 4 ft.; running varieties 6 x 8 ft.; about 4 to 6 seeds per hill and thin out later leaving the strongest plants about 3 to the hill. Hills similar to those made for Cucumbers with well-rotted manure or fertilizer are best. Winter varieties may be stored in a moderately warm dry place of even temperature.

Summer Varieties

314 **COCOZELLE GREEN BUSH** or **ITALIAN VEGETABLE MARROW.** This is a most delicious and fine flavored sort of Squash. It is becoming more in demand each year. The color is a deep green when young, ripening with alternate stripes of green and gold. The shape is long and slender. It is used when 10 or 12 inches long and is boiled or cut in slices and fried in butter.
Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.

315 **GIANT SUMMER STRAIGHTNECK.** This new summer Squash has almost entirely replaced the Crookneck type, in both home and commercial gardens. It differs from the Crookneck only in shape; the "neck" instead of being curved is straight and more attractive in appearance and much easier to pack in crates for shipping. The fruit is of large size and clear light yellow color. Plants bushy, vigorous growing and productive.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

316 **EARLY YELLOW SUMMER CROOKNECK.** An extensively used summer sort, with bush type of plant, and very prolific. Fruits curved at neck and weighing about 3 pounds. Color is light yellow at early stage and covered with warts. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.**

317 **MAMMOTH WHITE BUSH.** A well-known early variety, largely planted in the South both for market and home use. Color is creamy white with comparatively smooth surface, somewhat flattened and scalloped. Vines are bushy, vigorous and very productive. Known as Patty Pan and Cymling in the South.
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., $1.00.

Winter Varieties

318 **TABLE QUEEN** or **DES MOINES.** Also called Acorn. Desirable for home and market garden use. Trailing in habit, with acorn-shaped fruits, which average about 6 inches long by 4 inches wide, just right to serve one-half to a person. Color dark green, except when over-ripe, when it changes to buff. Flesh is orange color and sweet. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

319 **IMPROVED HUBBARD.** One of the best winter squashes, flesh bright orange-yellow, fine grained, very dry, sweet and richly flavored. Fruit large, oval-shaped; skin dark green, rough, covered with warts. Excellent keeper. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

320 **GOLDEN HUBBARD.** Similar to the old Hubbard excepting the skin is of a rich orange-red and heavily warted, flesh of extra fine quality. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.**

321 **WARTED HUBBARD.** Similar in fruit and shape to Hubbard except that the surface is very much warted. It is very handsome in appearance and of extra quality.
Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.

322 **BANANA.** Excellent winter sqash. Fruit 18 to 24 inches long and about 7 inches in diameter. Skin gray-blue and not so hard as that of the Hubbards. Flesh fine grained, deep yellow, dry, sweet.
Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., $1.25.

Table Queen Squash

TABAK (Ger.)

TOBACCO

TABACCO (It.)

Culture. The seed is sown from February to April in open beds. Ground must be clean, very finely pulverized, raked fine and smooth. It is customary to burn over the top of the bed by piling brush or litter to destroy weed seeds and add fertility for the young plants. After sowing, beds are protected with thin cotton cloth similar to cheese-cloth to protect them from Tobacco flies. About June 1st the plants are set in rich or highly fertilized ground in rows 4 feet apart each way. **An ounce sows about 50 square yards, sufficient to set 2 or 3 acres.**

323 **JUDY'S PRIDE BURLEY.** This variety has won great popularity in certain sections of Kentucky and Tennessee, and we think it is a good stand-up Burley. The leaf is broad, long and tapering, with prominent white ribs. The stalk is strong and holds the leaves well up off the ground. It has every characteristic of an excellent Burley and should produce a bright leaf of high quality. **Pkt., 15c; ½ oz., 30c; oz., 50c; ¼ lb., $1.50.**

324 **KELLEY'S TYPE WHITE BURLEY.** A heavy yielder of rich, bright leaf, large, long and broad. It is fast becoming the most popular type of Burley and is largely grown by planters in all Burley sections.
Pkt., 15c; ½ oz., 30c; oz., 50c; ¼ lb., $1.50.

Pritchard or Scarlet Topper Tomato

LIEBESAPFEL (Ger.)

TOMATO

POMO D'ORO (It.)

Culture. For earliest crop sow in a hotbed or shallow boxes in February or March, transplanting when 2 or 3 inches high to small pots, trays or cold frames. When danger of frost is past (usually in this climate the 1st to 10th of May), set in open ground 3 x 4 feet apart. Tomatoes should be staked to keep the fruit from the ground and it will also help to prevent blight, mildew and make them more prolific.

One ounce produces about 2,000 plants; 2 ounces produce enough plants to set one acre. For early crops sow in February; for late crops sow in open bed in April or May.

Wilt-Resistant Tomatoes

The loss caused by tomato wilt is increasing each year. Wilt is a fungus that lives in the soil and invades the plant through its roots. When diseased tomato vines are plowed under they only serve to increase the infection. In the early stages of the disease the leaves curl, later they turn yellow, beginning at the bottom of the plant which slowly dies, usually about the time the fruits are half grown. No amount of spraying will do any good—the only means of controlling wilt is to grow wilt-resisting varieties.

325 **PRITCHARD** or **SCARLET TOPPER.** An early main crop, wilt-resistant variety originated by the late Dr. F. J. Pritchard of the U. S. Department of Agriculture. Fruits globe-shaped, deep scarlet, smooth and solid. A good home and market variety. **Pkt., 10c; oz., 50c; 2 ozs., 85c; ¼ lb., $1.50.**

326 **BREAK O' DAY.** This new early wilt-resistant tomato was developed by Prof. Pritchard of the U. S. Department of Agriculture at Washington. The fruit is the same color, shape, size and solidity as Marglobe, but ripens 10 to 15 days earlier. A wonderful yielder and the only extra early tomato that is of a deep globe shape and good bright red color. Very solid fruits and few seeds; does not crack, making it a wonderful shipper. **Pkt., 10c; oz., 50c; 2 ozs., 85c; ¼ lb., $1.50.**

327 **MARGLOBE—WILT-RESISTANT.** Very productive second-early variety. Fruits large, smooth, meaty, red, globular. It will stand up longer after it becomes flushed than any other variety of tomato. Highly resistant to wilt and somewhat resistant to blights. **Pkt., 10c; oz., 50c; 2 ozs., 85c; ¼ lb., $1.50.**

328 **NORTON—WILT-RESISTANT.** Norton was developed from the Stone, ripens at the same season, and can be classed as a wilt-resistant Stone, but a more abundant bearer and the fruits are more solid. It yields a heavy crop of large, smooth, solid red fruits that ripen slowly, therefore is a good keeper and a good shipper; it is also remarkably drought-resistant. An excellent Tomato for home use, garden, for canning and for the late market.
Pkt., 10c; oz., 35c; 2 ozs., 60c; ¼ lb., 95c.

ALL 10c PACKETS ARE 3 FOR 25c; ALL 15c PACKETS ARE 2 FOR 25c

TOMATOES—Continued.

329 GREATER BALTIMORE. A heavy, thick-meated, midseason, scarlet-red variety. Large, smooth and solid. Ripens evenly. **Pkt., 10c; oz., 30c; 2 ozs., 55c; ¼ lb., 90c.**

330 BEAUTY. One of the most satisfactory and popular sorts. Fruits are purplish pink, ripen evenly, are uniform in size, very solid and of finest quality. They are exceptionally smooth and do not crack readily. Vines large, vigorous and very productive, ripening fruits about midseason. **Pkt., 10c; oz., 45c; 2 ozs., 80c; ¼ lb., $1.35.**

331 BONNY BEST. The fruits of this desirable early sort are most attractive in shape and color. The crop ripens more uniformly than any other early scarlet fruited sort. The vines are vigorous and produce a good crop of exceptionally round and deep fruits, bright deep scarlet in color and of very good quality. **Pkt., 10c; oz., 40c; 2 ozs., 70c; ¼ lb., $1.25.**

332 CHALK'S EARLY JEWEL. A particularly desirable sort with purplish scarlet fruit, nearly round, smooth, of large size and of most excellent quality. Fruit ripens early and not inclined to crack, is early and pickings are extended over a long season. **Pkt., 10c; oz., 40c; 2 ozs., 70c; ¼ lb., $1.25.**

333 CINCINNATI PURPLE. A favorite sort in this locality and one of the very best for home use. It is very round, smooth, solid and of splendid flavor. Vines are vigorous and remarkably productive. Fruits of large size, very meaty; have small seed cells and are of rich flavor. **Pkt., 10c; oz., 50c; 2 ozs., 85c; ¼ lb., $1.50.**

334 CRIMSON CUSHION or BEEFSTEAK. Is very large, round and regular; bright scarlet skin, solid flesh of best quality, seed cells small. Plants are very prolific and of fine appearance. **Pkt., 15c; oz., 55c; 2 ozs., $1.00; ¼ lb., $1.75.**

335 DWARF CHAMPION. An early variety which is very dwarf growing. The vines are so stiff that they are generally self-supporting. Fruits medium size, purplish red and borne moderately early. On account of its strong, upright growth, it is sometimes sold as Tree Tomato and is desirable on extremely rich soil and where tall varieties have a tendency to make too much vine. **Pkt., 10c; oz., 50c; 2 ozs., 85c; ¼ lb., $1.50.**

336 EARLIANA. A deep scarlet, very early variety. Fruit is borne in clusters, is medium to large, nearly round, and exceptionally smooth for so early a variety. On account of its extreme earliness and the fact that the crop ripens uniformly and very early, it is one of the most valuable of the early sorts. **Pkt., 10c; oz., 40c; 2 ozs., 70c; ¼ lb., $1.25.**

337 EARLY DETROIT. A very productive second early purple Tomato, uniform in size of fruit, free from cracks and does not blight easily. Fruit large and smooth. Vines vigorous and quite productive. Quality excellent. **Pkt., 10c; oz., 45c; 2 ozs., 80c; ¼ lb., $1.35.**

Marglobe Tomato

338 GOLDEN QUEEN. A large growing variety bearing abundantly. Fruits are golden yellow color, smooth, well shaped and desirable for slicing as a contrast with red varieties on the table. **Pkt., 10c; oz., 50c; 2 ozs., 85c; ¼ lb., $1.50.**

339 JOHN BAER. Similar in every respect to Bonny Best, but often a few days earlier. Fruits bright deep scarlet-red; medium large; flattened globe-shape; smooth and firm. **Pkt., 10c; oz., 40c; 2 ozs., 70c; ¼ lb., $1.25.**

340 JUNE PINK. An extra early, purplish pink sort, similar to Earliana except in color. It is a valuable variety for market gardeners and truckers, especially on markets where purplish sorts find ready sale. **Pkt., 10c; oz., 45c; 2 ozs., 80c; ¼ lb., $1.35.**

341 OXHEART. Because of its oxheart shape, large size, as well as excellent table qualities, it has quickly come into general favor. The skin is pink and the flesh frequently shows 2 inches thick, without a seed cavity. The flavor has that delicious tomato quality that every lover of this fruit knows so well. **Pkt., 15c; oz., 80c; 2 ozs., $1.40; ¼ lb., $2.50.**

342 PONDEROSA. One of the largest and finest varieties for home use. It is purplish pink in color. Vines vigorous, tall, fairly productive. Fruits are very solid and have exceptionally few seeds. It is fairly smooth for so large a variety and sometimes attains such a size that one slice will cover a dinner plate. Very free from acid, has few seeds, is of delicious flavor and most excellent for slicing; ripens about midseason. Most desirable for home use, and the large showy handsome fruits are popular sellers for fancy fruit stands. **Pkt., 15c; oz., 55c; 2 ozs., $1.00; ¼ lb., $1.75.**

343 PURPLE KING. One of the largest and best of the purplish pink varieties. Vines very vigorous and productive; fruits smooth, uniform in size, nearly globe shaped. It is an extremely early sort and of excellent quality. It is especially valuable for shipping. Purple King will become popular wherever grown. It is a very large, early sort and its freedom from cracking is a strong point in its favor. **Pkt., 10c; oz., 45c; 2 ozs., 80c; ¼ lb., $1.35.**

344 STONE. One of the very best Tomatoes, producing large, very smooth, solid fruit slightly flattened, deep red color. It is very popular with all market growers and especially desired by canners. Ripens midseason. On account of its large yield and general uniformity in production we strongly recommend it for both market gardens and home use. **Pkt., 10c; oz., 30c; 2 ozs., 55c; ¼ lb., 90c.**

345 TRUCKER'S FAVORITE. A large, deep purple variety, producing uniform size fruit. It is somewhat deeper color than Beauty; fruit being more globe shaped, largely used for main crop, producing fine yields of large, smooth, solid fruits which command best prices—hence very popular with truckers and market gardeners. **Pkt., 10c; oz., 45c; 2 ozs., 80c; ¼ lb., $1.35.**

346 YELLOW PONDEROSA. A large, mild-flavored variety. Strongly resistant to wilt. Fruits very large, golden yellow, quite solid, with small seed cells. **Pkt., 15c; oz., 55c; 2 ozs., $1.00; ¼ lb., $1.75.**

Small Fruited Tomatoes

For preserves, pickles and decorative purposes.

347 RED CHERRY. Fruits small, round, rich deep red. **Pkt., 10c; oz., 50c; 2 ozs., 85c; ¼ lb., $1.50.**

348 RED PEAR. Pear shape; about 2 inches long. **Pkt., 10c; oz., 50c; 2 ozs., 85c; ¼ lb., $1.50.**

349 YELLOW PEAR. Pear shape, about 2 inches long. **Pkt., 10c; oz., 50c; 2 ozs., 85c; ¼ lb., $1.50.**

350 YELLOW PLUM. Fruits oval; about 2 inches long; clear deep yellow. **Pkt., 10c; oz., 50c; 2 ozs., 85c; ¼ lb., $1.50.**

Tomato Plants

Leading varieties in season. We do not send these plants by mail.

TURNIPS

WEISSE RUBE (Ger.) **NAVONE (It.)**

One of the easiest crops to grow and profitable for stock feeding and in most cases for markets. They cost so little to grow, make splendid nutritious feed and should be more generally used.

Culture. For early use, sow in March or April, either broadcast, or in drills, using preferably Milan or Purple Top Strap Leaf or Globe.

Turnips for main crop are sown from July to September 15th, broadcast 1½ to 2 lbs. per acre. An ounce will sow about 300 feet. Turnips for greens can be sown as late as October 1st, and require 3 to 4 lbs. per acre.

355 EARLY PURPLE TOP MILAN. Extra early variety which is very sweet and particularly valuable for sowing in early spring. Roots are medium size, plants purple, top flat. Best for private gardens and preferable to grow for early market crop. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 85c.**

356 PURPLE TOP STRAP LEAF. A well-known early sort which is largely used in all sections. Our stock is extra choice. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c.**

357 PURPLE TOP GLOBE. A very superior strain, producing large, smooth roots, which are sweet and tender. One of the best for early or main crop use. Excellent either when young or fully matured. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c.**

358 EARLY WHITE FLAT DUTCH. Similar to Early Purple Top Flat, excepting that it is white all over. Quick grower, excellent quality and splendid for early crop. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c.**

359 LARGE WHITE GLOBE. Flesh white, firm and crisp; a very desirable early variety. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c.**

360 WHITE EGG. An early, oval variety with smooth, clear white roots, medium size, which grows half out of the ground; top small; flesh clear white, fine grained, sweet. Excellent either when young or fully matured. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c.**

361 LONG WHITE COW HORN. These often grow 12 to 15 inches long and are a valuable crop for stock feed; flesh is white, well flavored and good for table use. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c.**

362 SEVEN TOP. Used entirely for greens and very popular in the Southern States. **Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c.**

Rutabaga or Swedish Turnips

Rutabagas require longer to mature than the common turnips and should be sown earlier. To get heavy crops of large turnips sow the seed June 15 to July 1 in rows 2 to 2½ feet apart. Thin the plants to a foot apart. Rutabagas make excellent winter feed for sheep. For table use, Rutabagas can be sown later and will be of better quality, but not as large as when sown early. These turnips keep well and may be stored in the cellar in moist sand or in pits for use during the winter.

365 AMERICAN PURPLE TOP. Our stock of this is extra choice and can be depended on by the most critical growers. Rutabaga besides being best food for stock, is the sweetest of all Turnips for table use. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.**

Balsam, Double Bush-Flowered, "Torch"

Flower Seed Novelties

Ageratum, "Fairy Pink"

Ageratum Fairy Pink is a dwarf compact Ageratum of a delightful soft salmon-rose-pink color. It begins blooming when not more than 1½ or 2 inches high and continues to grow until it has formed a solid compact mass of blooms. Its maximum height when it is in full bloom is not greater than 5 inches. **Pkt., 20c; 3 for 50c.**

Balsam, Double Bush-Flowered "Torch"

Bush-flowered Balsams are really not recent novelties, but they are not at all well known in this country, so to most of the gardening public are actually in the novelty class. Unlike the taller growing Balsams, the flowers in the little bush-flowered type are carried at the tips of the stems, making a show of color rather than of foliage. The plants are 8 to 10 inches in height, very compact and literally covered with their double flowers. The variety "Torch," is a penetrating vermilion-red and very showy. Useful as an edging plant in your rock garden, or in window boxes and flower pots. **Pkt., 20c; 3 for 50c.**

Calliopsis "Golden Crown"

Enlarged Drummondi type of orange-yellow or gold, some with extra rows of petals. Flowers are produced on wiry stems about 12 inches in length and excellent for cutting. Very fragrant and excellent for garden and commercial use. Award of Merit 1937 All-America Selections. **Pkt., 25c.**

Chrysanthemum "Golden Crown"

Golden Crown is a hardy annual, having a very robust constitution, making vigorous strong well-branched plants 3 to 4 feet in height. The flowers are produced so freely that one plant will carry as many as 50 to 60 blooms. The foliage is of an attractive silvery green, contrasting with the bright double butter-yellow flowers. The most outstanding feature of this novelty is the formation of the flowers. The petals are quilled, which has a beautifying effect. **Pkt., 25c.**

Calendula, "Orange Fantasy"

Calendula "Orange Fantasy"

A new type and distinct. The first few rows of petals on the outside are long and beautifully twisted; the inner petals are short and fantastically curled and interlaced, piling up on top of each other in irregular fashion so as to form a heavy crest which surrounds a large, attractive, mahogany-bronze center. Flowers grow 3¾ inches across and are of an exceptionally deep but pleasing bronzy or coppery orange with petals edged deep mahogany-red. The plant grows 15 inches tall. Award of Merit 1937 All-America Selections. **Pkt., 25c.**

New V. & R. Delphinium

This new hand-pollinated strain of Delphiniums grown by Vetterle and Reinelt of California, are claimed to be mildew-resistant with fine large spikes and large flowers, holding their flowers over a long period. We offer this strain in the Giant Double Pacific Hybrids, including Lavender, Violet and Blue Shades. **Pkt., 40c; 1/16 oz., $1.50.**

Cuphea, "Firefly"

A newcomer this season, Firefly has all the characteristics needed in a dwarf, compact plant. The flowers are small and delicately formed, fiery cerise-red in color, and are freely produced on compact plants which reach a height of about 10 inches. The general effect of a plant when in full bloom is a ball of fire, recommending itself at once for the rockery, window boxes, flower pots or for the border or to be used for edging. An annual blooming in 10 to 12 weeks from seed and will bloom profusely throughout the summer months. **Pkt., 25c.**

Dimorphotheca, "Orange Glory"

This is a much improved strain of the form originally introduced several years ago from South Africa. It was then of a rather straggly growth, but by careful cultivation and selection the plant has been practically transformed and though still of a prostrate habit the plants are comparatively compact in shape. The pure bright orange starlike flowers are produced in greater profusion than those of Dimorphotheca Aurantiaca, they attain a diameter of 2 to 2½ inches, and make a splendid display during the summer months; highly recommended as an excellent plant for bedding purposes. **Pkt., 25c.**

Helipterum Anthemoides

This very attractive everlasting flower produces myriads of miniature pure white blooms about half an inch in diameter. It is so free flowering that at first the whole energy of the plant seems to be directed towards producing blooms, to the practical exclusion of foliage. There are sometimes as many as thirty or forty flowers to be found on a single stem. Not only will this variety prove an asset to the herbaceous border, but it will quickly become popular as a cut flower. Hardy perennial. Height 15 inches. **Pkt., 20c; 3 for 50c.**

Chrysanthemum, "Golden Crown"

nd Specialties for 1938

Linaria, "Fairy Rose"

The Linaria has made such strides in popular favor in late years that the introduction of Fairy Rose will be welcome. The newcomer presents a pleasing tone of rosy pink, just tinted with a delicate lilac. Height about 7 to 8 inches. It is quite floriferous and will doubtless prove an excellent variety for summer bedding. **Pkt., 25c.**

Russell Lupins

This new strain of perennial Lupins, as is now widely known, caused a sensation in horticultural circles. Raised by Mr. G. Russell of York, England, and are the results of twenty years work of a little known gardener whose name is likely to become a byword amongst flower lovers. Awarded the Royal Horticultural Society's Gold Medal, June, 1937. The long closely furnished spikes flower in a great variety of rich colors, deep yellows, oranges, reds and brilliant bicolors never seen in Lupins before. The flowers are large with flat fan-like back-standards, and unlike all other Lupins, most of the spikes retain their flowers throughout the whole period of the development. **Pkt. of 12 seeds, 25c; large pkt. containing 50 seeds, 65c.**

Russell Lupins

Annual Lupin "Attraction"

This very pleasing hardy annual Lupin has flowers of a very soft and attractive shade of pure rose-pink. The centers of the flower standards carry a golden yellow shading when young, which gradually deepens to a helio-tone. The blooms are very sweet-scented, and contrast admirably with the typical lupin-like foliage. **Pkt., 20c; 3 for 50c.**

Lupinus, "Attraction"

Marigold, "Golden West"

A new carnation-flowered Marigold; earlier, larger, and more floriferous than Guinea Gold. Flowers are fully double, bright rich orange, 3½ inches and more across, with petals loosely and gracefully placed. The inner petals are cupped upward while the outer ones curve downward. Petals are of wonderful substance so that the flowers last well when cut. Plants grow about 2½ feet tall and as they branch very freely from near the base, the stems are quite long and the flowers are to be had along the sides as well as on top. **Pkt., 25c.**

Marigold, Collarette "Crown of Gold"

An entirely new type of Marigold, developed in California. The crown or top part of the flower resembles a Chrysanthemum in formation and is made up of long, disc petals that beautifully interlace. The crown and the collarette of big, broad petals which surround it are of a bright, pleasing shade of clear golden orange. The color holds even when the flowers are old.

The flowers of the new Collarette Marigold, Crown of Gold, are slightly sweet-scented and the foliage is entirely free of the usual Marigold odor, so objectionable to many. This is the first Marigold in cultivation with entirely odorless foliage. Plants grow about 2 feet, bloom early, and are very floriferous. **Pkt., 10c; ⅛ oz., 25c.**

Helipterum Anthemoides

Marigold, Collarette "King's Ransom"

Like Crown of Gold the foliage is entirely odorless. Flowers are of nearly the same form as Crown of Gold. The collar is a little less conspicuous and the crown slightly larger. They grow 2½ to 3 inches across and are of a glowing, bright golden orange shade, a delightful tone midway between orange and yellow. Plants grow about 2 feet tall; quite branching with dense, deep green, odorless foliage. **Pkt., 25c.**

Marigold, Collarette "Yellow Crown"

Foliage is entirely odorless, as in Crown of Gold. Flowers are like Crown of Gold in form. The crown or crest is made up of many artistically cut, curled and interlaced florets resembling miniature Chrysanthemums. The collar is composed of broad, overlapping, recurving petals. Both collar and crown are of a clean, refreshing, cheerful, bright canary-yellow color. Plants grow about 20 inches tall. **Pkt., 25c.**

Microsperma, "Golden Tassel"

Growing not more than 8 or 9 inches high, forms a compact plant of perfect shape with handsome light green foliage strikingly like that of a Chinese Primula. The upright-growing bright chrome-yellow flowers, consisting of a graceful five-lobed trumpet-shaped corolla 2 inches across, are adorned with a multitude of similar colored stamens, which add greatly to their beauty and give them an original charm. This beautiful plant is suited for greenhouse decoration and should do well in the open border. Sowings should be made inside about the end of February or March, the seedlings repotted and put out-of-doors at the end of May. **Pkt., 25c.**

Salmon Supreme Petunia

Flower Seed Novelties

Nemesia, "Brightness"

The color is brilliant cherry-red and as can well be imagined Brightness will produce a very vivid display. It is a novelty of really outstanding merit. **Pkt., 25c.**

Nolana, "Blue Ensign"

This is a form of the Chilean Bellflower which was brought over from South America several years ago and has since been converted by careful cultivation into a much superior plant. It can be effectively grown either under glass or in the open ground. In pots it will grow 12 to 15 inches high, or when put outdoors it spreads a little and throws up its lovely large ultra-marine-blue flowers on stems 5 or 6 inches high. In shape these strongly resemble an Ipomaea and their beauty is much enhanced by the large pure white center, which has a charming effect. Seed should be sown in spring and the plant put out about the end of April, or it may be sown outdoors in May where the plants are to bloom. Not the least of the attractions of this beautiful flower is its very agreeable odor. **Pkt., 25c.**

Pansy, "Coronation Gold"

This new giant golden Pansy is of special merit. The flowers are large and of a fine texture. The plants are free blooming but compact. The color a pleasing shade of pure deep yellow, suffused golden orange and without eye. Award of Merit, 1937 All-America Selections. **Pkt., 25c.**

Petunia, "Salmon Supreme"

A new color in Petunias, and one that has been long wanted. The flowers, when first opening, are of a rich coral-salmon, changing as they mature to a glistening soft salmon-pink with a lighter throat. The flowers are about 2 inches across and are deeply 5-lobed. The plants present a very tidy appearance and have a nicely rounded form which is retained throughout the season. They have a uniform height of about 1 foot and a spread of about 1½ feet. Because of their profuse branching the plants are unusually floriferous, with all flowers elevated above the light fresh green foliage which harmonizes so beautifully with the soft tone of the flowers. The refined shape of the plants together with the very desirable color of the flowers make Salmon Supreme an ideal Petunia for borders, edgings or beds. Award of Merit, 1937 All-America Selections. **Pkt., 35c each.**

Petunia, "Gaiety"

An extra dwarf all-double Petunia, with flowers measuring 4 inches across, and the plants attaining a height of 10 to 12 inches. The color is a rose or light rose-red with white colorings. This variety will prove a splendid subject for the garden as well as for commercial use. **Pkt., 60c.**

Marigold, Collarette, "Crown of Gold"

Microsperma, "Golden Tassel"

Petunia, "Topaz Rose"

Topaz Rose is a brilliant bedding Petunia. The color is a fiery velvety rose that will neither fade nor burn under the hottest sun. It is slightly suffused with gold which gives it its fiery appearance and the throat is the color of topaz. Very fragrant. **Pkt., 25c.**

Petunia, "Blue Gem"

Years have been spent to produce a true violet-blue colored Petunia of dwarf and compact habit of growth. Blue Gem is just the type aimed at and we feel highly pleased in offering such an ideal strain to our customers. Blue Gem is a real true dwarf type with perfect ball-shaped growth. **Pkt. 25c.**

Dwarf Snapdragon, Magic Carpet

As Rock Gardens still stand high in popular favor any new, easily grown and attractive plants suitable for the purpose will receive an eager welcome. This we are sure will be the case with this new Snapdragon which is a true hybrid and very dwarf. Magic Carpet is of almost a creeping habit as it nestles among the stones, and covers them as with a carpet. The flowers appear in a variety of soft and pleasing colors and will add greatly to the gaiety of the rock garden during the summer months. **Pkt., 25c.**

and Specialties for 1938

Salvia, "Blaze of Fire"

This new Salvia will be welcome as a novelty of the year. It far surpasses Harbinger in earliness. The flowers are the most brilliant and vivid scarlet imaginable and the habit is ideal for bedding. Blaze of Fire is without doubt the earliest and most dwarf of all scarlet Salvia, blooming 10 to 14 days earlier than any other variety and of a much brighter color. **Pkt., 25c.**

Salvia Patens, "Mauve Queen"

The great popularity of the beautiful Salvia Patens makes it certain that there will be a very wide demand for this novelty. It is of exactly the same habit and growth as Patens, but the flowers are of a beautiful helio-mauve. This variety comes through from seed and can be recommended as a variety of outstanding merit. **Pkt., 25c.**

Salvia, "Dwarf Gem"

This new Salvia is of Tom Thumb dimensions, one of compact habit, not exceeding 6 to 8 inches in height. It is about as early as Harbinger, very free flowering, producing numerous spikes of flowers 4 to 5 inches long, of the most vivid scarlet color. It will certainly prove an excellent variety for bedding purposes and for borders, also a real gem for pot work. **Pkt., 25c.**

Salvia, "Blaze of Fire"

Nolana "Blue Ensign"

New Scabiosa Grandiflora, Rosette

As the result of many years' selection and painstaking care in Rosette has been created a glorious new color in Annual Scabiosa. Rosette is a beautiful shade of deep rose, heavily suffused with salmon. The flowers are extra large and the stems are long and stiff. This glorious, glowing new color will undoubtedly make Rosette a most popular flower for the garden and also with the florist for cutting. It is a fitting companion to Scabiosa Loveliness, Peach Blossom and Shasta, all of which have received Awards of Merit from the Royal Horticultural Society. **Pkt., 15c.**

Tithonia, "Fireball"

Dazzling as a ball of fire poised high above other flowers, Fireball is undoubtedly the last word in brilliance of color in a fall-blooming plant. Many who have known and enjoyed Tithonia Speciosa have considered it the brightest possible flower for fall use. With the introduction, however, of Fireball, this older variety is entirely over-shadowed. Fireball is a very brilliant, vibrant shade of scarlet-orange, the petals in dazzling contrast to the clear yellow center. The gaily colored flowers are single, very large, 4½ to 5 inches in diameter, and are carried on fine long stems. The plants reach a height of 8 or 9 feet with a fairly heavy growth of grayish green woolly foliage. If you do not wish your plants to grow to this height they can be controlled by planting in poor dry soil. The plants are neat in appearance, filling in well from the very base of the plant to the top, and unlike the older Tithonia Speciosa, do not come ragged looking. The seed is best planted indoors and the plants set out after danger of frost. Tithonia Fireball is an annual, flowering late in the season and is not subject to plant diseases. It is extremely showy in the garden and an excellent new cut flower variety. The flowers keep well for 5 or 6 days when cut. **Pkt., 25c.**

Navajo Zinnias (Gaillardia Flowered Zinnia)

Another of the newer Zinnia types, being entirely different from all others and resembling the double flowering Gaillardia. The flowers are attractive, of medium size, about 2 inches in diameter, just a good size for cut flower use, and are carried on stems of medium height. The plants are about 2 feet tall and very free flowering. Each petal of these double and semi-double flowers, for about one-third its length, is heavily tipped, creamy white, creamy yellow, or a lighter color than the balance of the flower. This two-color effect is most unusual and attractive. The colors range through the mellow tones of rose, pink, bronze, yellow, orange, lavender and combinations of these colors. Most of the flowers in fact are two-toned, with a ring of deeper color toward the center of the flower.

In fact, the colorings are similar to those found in a Navajo rug, hence its name. Flowers will be produced about 45 days after seed is sown. **Pkt., 25c.**

Aquilegia Longissima

The flowers are of striking formation, with deep yellow petals and paler yellow sepals, and extremely elongated spurs. These spurs may be 5 inches or more in length. The effect is at once dainty, unusual and interesting. The plants are from 2 to 3 feet tall, with characteristic bright green cut-leaf foliage, and reddish stems. Flowers are produced during spring and early summer and are effective in the garden, although much more so in flower arrangements. **Pkt., 40c.**

Aquilegia, Clematis-Flowered Columbine Mixed

This glorious Columbine is absolutely distinct in petal formation. As will be seen from the accompanying picture the blooms greatly resemble Clematis flowers. The plants are of medium height, good compact habit and free-flowering whilst the individual blooms are large and solid in petal. The color range includes delicate pastel shades of pink and blue. Hardy perennial. Height 2 to 3 feet. **Pkt., 50c.**

Aquilegia, Clematis-Flowered

Seeds of Annual Flowers

The life of the true Annual does not extend longer than one season. Itself the product of a seed, the plant produces flowers, ripens its seed and perishes in the same year.

They have many advantages. The seeds of Annuals are inexpensive, the flowers can be enjoyed both by the home renter as well as the home owner. Because of their short period of growth, they can be used to fill up gaps in the Perennial border and to succeed plantings of spring-blooming bulbs, such as Tulips, Hyacinths, etc.

Annuals have a delicate beauty all their own and no plants surpass them in brilliancy for summer display. They furnish material for a whole garden, as well as cut flowers for home decoration.

A succession of bloom may be had by occasional sowing of many sorts, such as Alyssum, Candytuft, Eschscholtzia, Zinnias, etc. In the latitude of Cincinnati, Ohio, these sowings may be made as late as July 1st to 15th. Another method now being used more than ever is the autumn planting of Annual seeds for early spring bloom, such as Cornflowers, Gypsophila, Larkspur, Petunias, etc.

This year we have segregated the flower seeds, placing Annuals in one group, followed by Perennials, Vines and those for greenhouse culture. Consult the index if in doubt.

NOTE: We send out no untested seed and when failure occurs, we invariably find that the seed had been planted too deep or the soil has been permitted to become excessively dry, or the reverse, while germination is taking place.

Seeds of Annuals, unless otherwise noted, should be started indoors in a light, sifted soil with sand and humus or clean leafmold added. Water the soil thoroughly and allow to drain and then sow seed thinly in rows. Cover with paper or glass to conserve moisture. Plant out when all danger of frost has passed. Some Annuals may also be sown where they are to flower, the young plants later being thinned out.

All varieties marked with an ® throughout the list of Annual flower seeds are especially suitable for the rock garden.

Ageratum - Floss Flower

One of the best bedding plants, being literally a sheet of bloom from early summer till frost. Easily raised from seed started in a hotbed and in May transferred to the garden, 4 to 6 inches apart. Can also be sown outdoors in May.

®401 **BLUE BALL.** The plants are compact and about 4 inches high. Growth uniform and even, broad green foliage with flowers of a rich shade of blue. **Pkt., 20c.**

®402 **DWARF BLUE CAP.** This is by far the best all around dwarf Ageratum yet produced. The plants are tiny mounds of flowers, which are large and compact and a deep rich blue. The foliage is small and inconspicuous, so the effect is that of a solid mass of flowers, making a narrow ribbon of color around a flower border. **Pkt., 15c.**

403 **BLUE PERFECTION.** Large heads of deep blue flowers in abundance. Fine for cutting. Height 12 inches. **⅛ oz., 25c; pkt., 10c.**

®404 **FAIRY PINK.** A dwarf compact Ageratum of a delightful soft salmon-rose-pink color. Height, 5 inches. See Novelty page 22. **Pkt., 20c.**

Alyssum

A fragrant edging plant with small, white flowers in great profusion throughout the summer and autumn. Useful for borders and window-boxes. For Alyssum saxatile see Perennial List.

®405 **MINIMUM.** Miniature sort. The dwarfest of all; tiny, compact little plants only 2 inches high, smothered with small, pure white flowers. **¼ oz., 25c; pkt., 10c.**

®406 **CARPET OF SNOW.** Of creeping habit, forming a dense carpet of beautiful white flowers. Height, 4 inches. **¼ oz., 25c; pkt., 10c.**

®407 **TOM THUMB.** A splendid sort for edges, borders, or rock work. Height, about 6 inches. A compact mass of bloom 12 to 15 inches across. **¼ oz., 25c; 1 oz., 75c; pkt., 10c.**

408 **SWEET.** Height, about 8 to 10 inches but spreading. **Oz., 25c; pkt., 10c.**

409 **LILAC QUEEN.** Is of dwarf, compact habit and the deep lavender-like flowers are borne in profusion. **¼ oz., 25c; 1 oz., 75c; pkt., 10c.**

Amaranthus

Effective plants because of their brilliantly colored foliage. Flowers are interesting. Best in sunny positions on rather poor soil.

410 **MOLTEN FIRE.** Brilliant Poinsettia-like tips. **Pkt., 15c.**

411 **TRICOLOR** (Joseph's Coat). **2½ ft.** The inner foliage is of blackest bronze, tipped with green, the outer bright scarlet and gold. **Pkt., 10c.**

Anchusa

412 **BLUE BIRD.** A dwarf compact type. 18 inches high, with indigo-blue blossoms. Blooms freely during late spring and summer. **¼ oz., 25c; pkt., 10c.** For Anchusa Italica see Perennial List, page 43.

PLEASE NOTE: All 10c pkts., 3 pkts. for 25c. All 15c packets, 2 pkts. for 25c. All 20c pkts., 3 pkts. for 50c. All 25c pkts., 3 pkts. for 65c. All 35c pkts., 3 pkts. for $1.00.

Gorgeous Snapdragons

(Antirrhinum)

Snapdragons have been amazingly improved in size and color. They are hardy and should be sown early, as they germinate slowly. Unless very rich soil is provided and all plants are staked, the dwarf and semi-tall class will be most satisfactory in the garden. They are effective in beds of solid color, and require full sun. Keep seed pods picked off. If intended for winter flowering, cut back in September.

Rust-Proof Snapdragons

The introduction of the New *Rust-Proof Snapdragon should be welcome news to the gardener who finds the Snapdragon among his garden favorites.

It will be a joy to see these plants with their clean healthy foliage free from rust.

*Rust is that disease which causes a burned or blighted appearance on the foliage.

Rust-Proof Super Majestic Snapdragons

A superb mixture of Majestic Snapdragons containing a fine range of color. This mixture contains many rare and new colors in Snapdragons that have not been introduced to date. This new group is superb as a cut flower, for bedding and all other purposes in the garden.

413 Mixed. **Pkt., 20c; 3 pkts., 50c.**

Antirrhinum Rust-Proof Maximum

In habit these are tall and the individual flowers are very large. Approximately 3 feet high.

414 ALASKA (Snowflake). Pure white.
415 APPLE BLOSSOM. Rosy pink, white tube.
416 CAMPFIRE. Luminous scarlet.
417 CANARY BIRD. Canary-yellow.
418 COPPER SHADES. Copper-orange to gold.
419 DAFFODIL. Yellow.
420 FAIR LADY. Pink with white tube.
421 LOVELINESS. Soft rose-pink.
422 RED CROSS. Crimson, with white tube.
423 SALMON-ROSE SHADES.

Any of the above Maximum varieties: **Pkt., 15c; ⅛ oz., 40c.**

424 Maximum Mixed. Pkt., 15c; ⅛ oz., 35c.

Antirrhinum Rust-Proof Majus Grandiflorum

Approximately 2 feet high.

425 Mixed. All shades. **Pkt., 15c; ⅛ oz., 40c.**

Antirrhinum Rust-Proof Nanum Grandiflorum

Approximately 1-1½ feet high.

426 CARMINE ROSE. Uniform, bright carmine-rose.
427 GLOWING SUNSET. Rosy scarlet.
428 INDIAN GIRL. Beautiful old gold.
429 RED BOY. Rich deep scarlet.
430 WILDFIRE. Bright orange-scarlet.

Any of the above Nanum Grandiflorum varieties. **Pkt., 10c; ⅛ oz., 25c.**

431 NANUM GRANDIFLORUM MIXED. Pkt., 10c; ¼ oz., 50c.

432 ANTIRRHINUM UNIVERSITY OF CALIFORNIA MIXTURE. An excellent mixture of rust-proof Antirrhinums similar to the Majus Grandiflorum, containing a range of popular colors. Winner of certificate of honor in 1935. All-America selection. **Pkt., 10c; ⅛ oz., 25c.**

PLEASE NOTE

All 10c packets, 3 pkts. for...	**$0.25**
All 15c packets, 2 pkts. for...	**.25**
All 20c packets, 3 pkts. for...	**.50**
All 25c packets, 3 pkts. for...	**.65**
All 35c packets, 3 pkts. for...	**1.00**

Semesan or Formacide Insures Good Seed Germination
See Page 61

Majestic Snapdragons

Tom Thumb Snapdragons

Dwarf Snapdragons

®**433 MAGIC CARPET.** As Rock Gardens still stand high in popular favor any new, easily grown and attractive plants suitable for the purpose will receive an eager welcome. This we are sure will be the case with this new Snapdragon which is a true hybrid and very dwarf. Magic Carpet is of almost a creeping habit as it nestles among the stones, and covers them as with a carpet. The flowers appear in a variety of soft and pleasing colors and will add greatly to the gaiety of the rock garden during the summer months. **Pkt., 25c.**

®**434 DWARF ROCK HYBRIDS.** Charming small compact plants with flowers in many different colors. Suitable for rock garden planting. **1/16 oz., 40c; pkt., 15c.**

Five Rust-Proof Snapdragons

This collection contains 1 packet each. Loveliness, Red Cross, Copper shades, Canary Bird, Alaska. (Value 75c) for **50c.**

Tom Thumb Varieties

Suited for edging beds and pot plants.

435 DWARF, MIXED. This dwarf type of Snapdragon grows about 8 inches tall. The fine stocky plants are covered with heavy spikes representing many showy colors. Excellent for small beds and for edgings. **⅛ oz., 25c; pkt., 10c.**

Arctotis

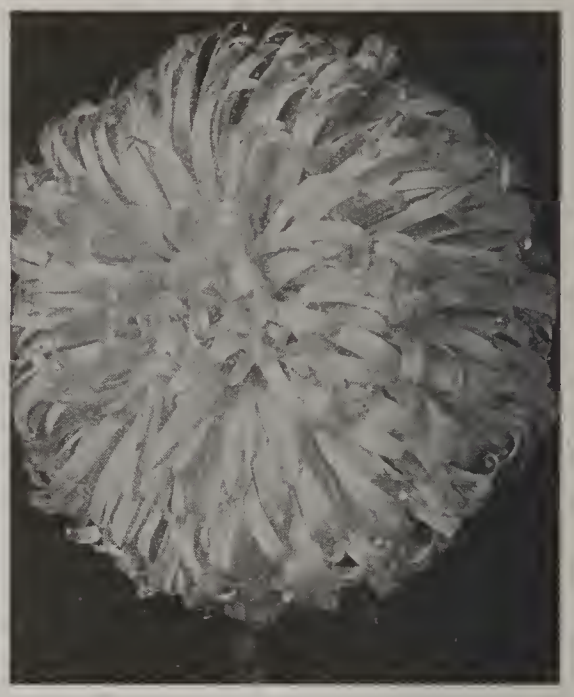
(Blue-Eyed African Daisy)

436 GRANDIS. Forms much branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals, pale lilac-blue; blooms early in July and continues until hard frost. It delights in a sunny situation. Half-hardy annual. **¼ oz., 25c; pkt., 10c.**

437 ARCTOTIS HYBRIDS. These new hybrids include such lovely shades as pink, red, purple, violet, yellow and orange, all showing the characteristic blue center. **Pkt., 20c.**

Wilt-Resistant Aster, Golden Sheaf

Sunshine Aster



Crego Aster

ASTERS—New Types and Wilt-Resistant Strains

Asters are the glory of our gardens in August and September, just when good flowers for cutting and garden display are wanted. To cut Asters abundantly as long as possible, several sowings should be made of the early and late flowering types. To succeed with Asters, sow the seed in flats in the house or hotbed in March. Transplant the seedlings two inches apart in boxes, and when they are large enough to handle, move to permanent beds in May. Make the second sowing in the cold frame the latter part of April, and the third sowing in the open ground about May. Set the plants of the early varieties ten inches apart, and of the later varieties eighteen inches apart. The richer the ground, the better your flowers will be, and water is very necessary.

New Aster Giant California Sunshine

We now offer delightful new colors as well as the mixture in the popular Aster Giant California Sunshine group. These plants grow three feet high and bear blossoms five and six inches across on long stiff stems.

The dual-tone color effects formed by the quilled disc and the encircling guard petals are lovely beyond description.

438 **ALPENGLOW.** Purple, yellow center.

439 **BLUE MOON.** Blue, yellow center.

440 **MOONBEAM.** White, orange center.

441 **RAINBOW.** Rose-pink, orange center.

442 **SHELL PINK.** With white and lemon center.

443 **STRATOSPHERE.** Dark blue with orange center.

PRICE: Any of the above, pkt., 20c; 3 for 50c.

444 **GIANT CALIFORNIA SUNSHINE MIXED.** All colors. **Pkt., 15c.**

THE BOOK OF GARDEN MAGIC

A real notebook for a real gardener, sturdy water-proof cover—loose-leaf pages, clear practical illustrations—make this the most useful garden book yet published. In addition a monthly bulletin is sent to all purchasers without extra charge, calling attention to the operations for the current month. $3.50.

YOU TOO . . . CAN HAVE A BEAUTIFUL LAWN!

(See Inside Front Cover)

California Giant Asters

A new variety of the Crego type, with the robust habit of growth and long stems of the Beauty type. The flowers are much larger and more substantial than the Improved Crego. They measure 5 to 6 inches in diameter and stand up well when shipped as cut flowers. Their immense size and beauty, as well as their long and sturdy stems, make them very attractive.

445 **WHITE.**
446 **PEACH BLOSSOM.**
447 **LIGHT BLUE.**
448 **DEEP ROSE.**
449 **DARK PURPLE.**

Price: Any of the above, pkt., 15c; ⅛ oz., 50c.

450 **MIXED COLORS.** ⅛ oz., 40c; pkt., 15c.
2450 **COLLECTION.** One pkt. each, above 5 colors, 60c.

Aster (Wilt-Resistant) Golden Sheaf

451 **GOLDEN SHEAF.** Is the deepest yellow Aster yet offered, and the only one that is wilt-resistant. The flowers are fully double with an attractive crest-like center, of good substance and fine depth of petal. **Pkt., 15c.**

ANNUALS IN THE GARDEN
By H. Stuart Ortloff, L. A.

Includes many interesting suggestions for the use of these popular plants in the landscape scheme, by themselves and in combination with perennials, in the rock garden, in the border, for cutting, to follow hulbs, in window hoxes, etc. It contains full instructions for growing annuals, sowing seed, transplanting and care in the garden. It also includes summer-flowering bulbs and hiennials. It is illustrated with a frontispiece in color, four photographs and seventeen interesting landscape plans with planting lists for using these popular flowers in the home-garden scheme. $1.25.

Early Royal Asters

An early, large-blooming type of Aster with elegant rounded double flowers carried on very long stems. The plant branches near the ground, which insures long flower-stems for cutting.

452 **FINEST MIXED COLORS.** ⅛ oz., 30c; pkt., 10c.

Wilt-Resistant Asters

Wilt-resistant Asters will successfully solve your past difficulty in growing these beautiful fall flowers. Many gardeners have had to abandon all attempt to grow Asters because of wilt. No practical wilt control has yet been discovered. The following highly resistant strains have been developed from plants which through several years of production under severe wilt conditions, have survived untouched. The resultant seed now makes possible perfect fall displays of this popular Annual.

Wilt-Resistant Early Royal Asters

453 **AZURE BLUE.** ⅛ oz., 50c; pkt., 15c.
454 **DEEP ROSE.** ⅛ oz., 50c; pkt., 15c.
455 **PEACH BLOSSOM.** ⅛ oz., 50c; pkt., 15c.
456 **PURPLE.** ⅛ oz., 50c; pkt., 15c.
457 **WHITE.** ⅛ oz., 50c; pkt., 15c.
458 **FINEST MIXED.** ⅛ oz., 40c; pkt., 15c.

Wilt-Resistant Crego Asters

459 **CATTLEYA.** ⅛ oz., 50c; pkt., 15c.
460 **CRIMSON.** ⅛ oz., 50c; pkt., 15c.
461 **DEEP ROSE.** ⅛ oz., 50c; pkt., 15c.
462 **ENCHANTRESS.** Salmon-rose. ⅛ oz., 50c; pkt., 15c.
463 **PEACH BLOSSOM.** ⅛ oz., 50c; pkt., 15c.
464 **PINK.** ⅛ oz., 50c; pkt., 15c.
465 **PURPLE.** ⅛ oz., 50c; pkt., 15c.
466 **WHITE.** ⅛ oz., 50c; pkt., 15c.
467 **FINEST MIXED.** ⅛ oz., 40c; pkt., 15c.

PERENNIAL ASTERS. See page 44.

Brachycome—Swan River Daisy

Balsam - Lady's Slipper

An old-fashioned flower which is generally popular in all gardens. It bears flowers of various shades, white, pink, red, yellow, purple, etc., some of which are beautifully striped and spotted. Hardy annual.

468 **DOUBLE MIXED.** ¼ oz., 25c; pkt., 10c.

469 **DOUBLE BUSH-FLOWERED TORCH.** For description see Novelty page 22. **Pkt., 20c.**

BALSAM PEAR OR APPLE. See page 52.

BACHELOR'S BUTTON. See Centaurea.

Bartonia
Blazing Star or Gold Star

470 **AUREA.** A free-blooming and showy hardy annual with large yellow flowers. The foliage is gray and thistle-like, and is exceedingly brilliant in the sunshine. Thrives in a sunny situation even in poor soil. Should be sown where intended to bloom as it does not transplant well. Height, 18 inches. **Pkt., 10c; ¼ oz., 25c.**

Begonia
Everblooming Bedding Varieties

The small, bright flowers are borne in great profusion from summer to autumn. Spring seedlings bloom in summer while summer seedlings make fine house plants for the winter.

471 **CHRISTMAS CHEER.** Red, everblooming, with enormous, rich bright cherry-red flowers, often 2 inches in diameter. **Pkt., 25c.**

472 **SEMPERFLORENS, SALMON QUEEN.** Very attractive new variety with large, salmon-colored blossoms and dark foliage. **5 pkts., $1.00; pkt., 25c.**

BLACK-EYED SUSAN (Thunbergia). See page 52.

Brachycome
Swan River Daisy

473 **IBERIDIFOLIA.** Mixed. One of the daintiest and most charming little annual flowers imaginable and easy to grow in any soil. The flowers are borne on graceful stems well above the delicate, finely laciniated foliage. They are ideal for low beds and borders, as the plants grow to a height of only 8 to 10 inches. **⅛ oz., 25c; pkt., 10c.**

COREOPSIS (Perennial Calliopsis). See page 45.

CALIFORNIA POPPY. See Eschscholtzia, page 32.

CAMPANULA (Canterbury Bells). See page 45.

Calendula, Orange Shaggy

Canna - Indian Shot

Cannas can be successfully grown from seed if planted early. Pour boiling hot water over the seeds, soak for 24 hours. Plant in sand ¼ to ½ inch deep. The seed will germinate in 2 to 4 weeks.

474 **MIXTURE OF NEWEST NAMED VARIETIES. Pkt., 15c.**

Calendula - Pot Marigold

Easily raised, flower quickly from seed, and bloom without interruption until hard frost. Sow where they are wanted 2 to 3 seeds together, 12 inches apart, pull out the weakest, leave but 1 plant to grow; or start seed in hotbed in March or April and transplant outdoors in May. Frequently used for winter blooming under glass. Height 12 to 18 inches.

475 **ORANGE SHAGGY.** The petals are long and deeply fringed or laciniated. Row after row of these long fringed petals overlap each other in a rather irregular fashion with the shaggy appearance of some Chrysanthemums. Blooms are of great grace and beauty, sharply contrasting with the rather formal appearance of varieties such as Orange King, etc. Color deep orange shading to slightly lighter orange in the center, giving the flower a delightful two-tone effect. Orange Shaggy has long stems and grows about 18 in. high. **Pkt., 15c; ¼ oz., 20c.**

476 **ORANGE KING.** Beautiful rich orange. Full double flowers, borne abundantly throughout the season. **Oz., 25c; pkt., 10c.**

477 **DOUBLE ART SHADES.** Contains many tones and shades not previously obtainable—delicate apricots, beautiful picotees, orange shades, cream tones—every conceivable tint from pure white through cream and buff to yellow and deep orange. **⅛ oz., 25c; pkt., 15c.**

478 **CHRYSANTHA or SUNSHINE.** The large flowers are buttercup yellow with long, loosely arranged petals, which droop to give the rounded appearance found in our favorite Chrysanthemums. **⅛ oz., 25c; pkt., 15c.**

479 **RADIO GOLDEN BEAM.** An English variety of merit. The petals are beautifully quilled and fluted, which enhances the beauty of the golden yellow globular flowers. It harmonizes with almost any color. **¼ oz., 35c; pkt., 15c.**

480 **BALL'S ORANGE.** Bright orange flowers, very large, with long stems, uniformly double. A favorite on the cut-flower market. **¼ oz., 35c; pkt., 15c.**

481 **CAMPFIRE.** (Sensation). Extremely large flowers; carried on long stout stems. The color is a brilliant orange with a scarlet sheen and a full yellow center. **¼ oz., 35c; pkt., 15c.**

Calliopsis, Dazzler

482 **GOLDEN KING.** Identical in every way with the well-known Orange King Calendula except that the flower is of a rich golden yellow color, of large size, beautifully formed and perfectly double. **Pkt., 20c; 3 for 50c.**

483 **ORANGE FANTASY.** For description see novelty page 22. **Pkt., 25c.**

484 **ORANGE SUNSHINE.** Chrysanthemum-like in form and of a bright orange color. **Pkt., 25c.**

485 **LEMON QUEEN.** Rich lemon-yellow. **Oz., 25c; pkt., 10c.**

486 **MIXED.** All sorts mixed. **Oz., 25c; pkt., 10c.**

Gay Calliopsis

One of the best annuals for beds or borders, producing attractive and graceful flowers on long stems which are most effective and artistic for decoration. They commence blooming early and continue until early fall. Seeds are usually sown outdoors where they are to bloom but can be sown inside and transplanted.

487 **DAZZLER.** Grows about 12 inches high, a little taller than Tom Thumb Beauty, but with better habit and blooms twice the size. These completely cover the plant and display a rich maroon-red center, with broad golden yellow border, a splendid sheet of color. Strongly recommended for summer bedding. **Pkt., 15c.**

488 **THE SULTAN.** A splendid new sort with flowers as large as those of Dazzler, but of a rich maroon-crimson. For bedding it is greatly in advance of its class. A trial will quickly prove its superiority for bedding purposes. **Pkt., 15c.**

489 **GOLDEN CROWN.** For description see Novelty page 22. **Pkt., 25c.**

490 **DWARF VARIETIES.** Mixed. Valuable for small mixed beds and borders. **¼ oz., 25c; pkt., 10c.**

491 **TALL MIXED.** A splendid mixture comprising many varieties and a great range of colors. **¼ oz., 25c; pkt., 10c.**

LAWNS

By F. F. Rockwell

You will find use for this information year after year, for it shows both how to start a lawn right and how to keep it smooth and velvety thereafter. Full of suggestions on laying out the lawn, grading, fertilizing, planting, care, weed and pest control, and remaking and repairing old lawns. 39 illustrations, 87 pages. **$1.25.**

Sent Postpaid.

Annual Canterbury Bells

Candytuft for Mass Planting

Showy branching plant fine for edgings, bedding, massing, rockeries or for cutting. For early blooms, sow seed inside in March, making successive sowings outdoors any time from May to July. They thrive in rich soil and should be watered freely.

Hyacinth-Flowered Types

®492 **MINIATURE GEM.** A dainty, miniature hyacinth-flowered annual Candytuft about 3½ inches high, each plant producing 4- to 6-inch spikes of pure white flowers. A perfect miniature gem for the rock garden. **Pkt., 15c.**

493 **GIANT HYACINTH-FLOWERED or IMPROVED EMPRESS.** A wonderfully improved strain of the popular Empress Candytuft, forming much branched plants about 18 inches high. Make a very effective white bed or border and is invaluable for cutting. **¼ oz., 25c; oz., 60c; pkt., 10c.**

Umbellata Types

Umbellata sorts grow about one foot high, with flowers in umbrella form.

494 **ROSE CARDINAL.** Bright carmine-rose. **¼ oz., 25c; pkt., 10c.**

495 **FLESH-PINK.** Light pink. **¼ oz., 25c; pkt., 10c.**

496 **CRIMSON.** Rich deep shade. **¼ oz., 25c; pkt., 10c.**

497 **LAVENDER.** Delicate shade of rosy lavender. **¼ oz., 25c; pkt., 10c.**

498 **FINEST MIXED.** Comprising all colors and shades. **½ oz., 25c; oz., 40c; pkt., 10c.**

PERENNIAL CANDYTUFT. See Iberis. page 48.

New Annual Canterbury Bells

Bring Spring to the Garden in September

Annual Canterbury Bells will flower in less than six months from seed, will grow two and one-half feet tall, producing six to eight flowering spikes to the plant.

499 **MIXED COLORS. Pkt., 15c.**

CARNATION

500 **ENFANT DE NICE MIXTURE.** These are the result of a cross between Carnation Chabaud's Giant Improved and Carnation Perpetual. The plants are of robust, upright habit, with long, strong stalks bearing flowers 2½ to 3 inches in diameter. This strain is magnificent. About 90% of the plants come double. **Pkt., 15c.**

501 **MARGUERITE.** A very early blooming sort which sometimes blooms in four months from sowing. Flowers are large, double, deeply fringed, very fragrant. Plants semi-dwarf, good for bedding and desirable for cutting. Annual. Finest mixed colors. **¼ oz., 25c; pkt., 10c.**

Celosia Cristata Nana - Cockscomb

A free bloomer growing best in rather light, not too rich soil. Sow seed indoors in early spring and plant outdoors in May, or sow seed outdoors in May.

502 **GLASGOW PRIZE.** Dwarf crimson. **Pkt., 10c.**

503 **DWARF GOLDEN YELLOW. Pkt., 10c.**

Celosia Childsi - Chinese Woolflower

504 **MIXTURE.** A ditsinct type, with large, roundish head and drooping spikelets of flowers which look like an immense ball of wool. All colors. Very showy. **Pkt., 10c.**

Centaurea

Sow outdoors in April, thin plants to stand ten inches apart, or you may sow seed from September to November for early bloom the following spring.

Centaurea Cyanus - Cornflower

505 **DOUBLE BLUE BOY.** **¼ oz., 25c; pkt., 10c.**

506 **DOUBLE PINKIE.** **¼ oz., 25c; pkt., 10c.**

507 **DOUBLE MIXED.** **¼ oz., 20c; oz., 50c; pkt., 10c.**

508 **JUBILEE GEM.** Jubilee Gem is a dwarf variety of Cornflower making a compact plant literally covered with flowers. It has foliage distinct from all other Cornflowers, forming a tufted mass of vivid green, contrasting well with the dark but vivid double blue flowers. The plant is about 12 inches in height. **Pkt., 15c; ⅛ oz., 25c.**

Centaurea Imperialis - Royal Sweet Sultan

509 **FINEST MIXED.** A wonderful annual for cutting. long-stemmed, exquisitely fringed and delightfully fragrant. 2 to 3 feet. May until frost. **¼ oz., 20c; pkt., 10c.**

Chorizanthe - Turkish Rugging

510 **PALMERI.** A new subject for the border or rock garden. This easily grown annual forms a dense mat of statice-like flowers of a delicate pink which blends beautifully with the dull green foliage. In early fall the plant changes to a charming shade of autumn brown, which makes a bold showing at a time when Mother Nature is taking her last bow. It grows about 8 inches and has a spread of 12 to 18 inches. **Pkt., 15c.**

Cosmos, Double or Anemone-Flowered

Chrysanthemum

511 **SINGLE GOLDEN GLORY.** Large perfectly formed flowers measuring 3 to 4 inches across, of deep canary-yellow, produced on 2-foot stems. The attractiveness of Golden Glory is further increased in that the central disc is the same color as the petals. A very free-flowering annual. Height 3 feet. **Pkt., 10c.**

512 **GOLDEN CROWN.** For description see Novelty page 22. **Pkt., 25c.**

Chrysanthemum, Single Golden Glory

513 **SINGLE MIXED.** A splendid mixture, including many fine colors. **Pkt., 10c.**

514 **DOUBLE MIXED.** Lovely double flowers; shades of yellow and white. **Pkt., 10c.**

Clarkia

This pretty and easily grown annual has been much improved in recent years, and the mixture offered below is now seen as cut flowers in most of the large cities of Europe. They do well either in sun or shade, growing 2 to 2½ feet high, with leafy racemes of double flowers, which all open in water when cut.

515 **ELEGANS DOUBLE MIXED.** **¼ oz., 25c; pkt., 10c.**

Cleome - Spider Plant

516 **PUNGENS.** A showy garden annual producing curious heads of flowers of bright rose; easy cultivation, blooming until late. Height, 4-5 ft. **¼ oz., 30c; pkt., 10c.**

Coleus - Flame Nettle

A fine colored, tender perennial foliage plant for house or garden. Sow indoors in March.

517 **FINEST MIXED COLORS.** 3 pkts., 50c; **pkt., 20c.**

COLUMBINE. See Aquilegia, perennial, page 44.

Cosmos for Early Autumn Color

Graceful autumn flowers, fine for cutting and extremely showy in the garden. Very easily grown. They do best in rather poor soil.

521 **ORANGE FLARE.** Now at last we may grow the lovely orange-colored Cosmos and be assured of having flowers before frost. In most parts of the country this brilliant hued flower is practically unknown because of its late flowering habit. In Orange Flare we offer an early flowering strain which may be enjoyed by all. **Pkt., 15c; ¼ oz., 25c.**

Cosmos, Sensation

The flowers of this strain are mammoth in size, 4 to 5 inches in diameter, with broad, heavy fluted petals carried on very long strong stems. It is extremely early flowering, blooming in 10 weeks from the time of seeding. The plants make a rather heavy growth of foliage, reach a height of about 4 feet, are free blooming, and while the flowers are unusually large at all times, plants may be disbudded for even larger flowers for the cut flower trade.

518 **SENSATION PINKIE.** Clear rose-pink. **Pkt., 15c; ⅛ oz., 35c.**
519 **SENSATION PURITY.** Pure white. **Pkt., 15c; ⅛ oz., 35c.**
520 **SENSATION MIXED.** Pink and white. **Pkt., 15c; ⅛ oz., 25c.**

Dwarf Early Flowering Types

522 **WHITE.** ¼ oz., 25c; pkt., 10c.
523 **CRIMSON.** ¼ oz., 25c; pkt., 10c.
524 **PINK.** ¼ oz., 25c; pkt., 10c.
525 **MIXED.** ¼ oz., 20c; pkt., 10c.

Tall Late Mammoth Flowering

526 **GIANT WHITE.** ¼ oz., 25c; pkt., 10c.
527 **GIANT CRIMSON.** ¼ oz., 25c; pkt., 10c.
528 **PINK LADY LENOX.** A beautiful shade of shell-pink, early blooming and very large flowers. ¼ oz., 25c; pkt., 10c.
529 **GIANT MIXED.** Comprises all shades. ¼ oz., 20c; pkt., 10c.

Double or Anemone-Flowered

530 **PINK BEAUTY.** ¼ oz., 50c; pkt., 10c.
531 **CRIMSON KING.** ¼ oz., 50c; pkt., 10c.
532 **WHITE QUEEN.** ¼ oz., 50c; pkt., 10c.
533 **SUPERB MIXED.** ¼ oz., 40c; pkt., 10c.

Cynoglossum - Chinese Forget-Me-Not

535 **AMABILE, BLUE.** An annual recently introduced from China; of the easiest culture, forming strong plants 18 to 24 inches high and producing through the summer months sprays of intense blue Forget-me-not flowers, delicately sweet scented. A splendid addition to the comparatively short list of real blue flowers. ¼ oz., 30c; pkt., 10c.
536 **AMABILE PINK.** ⅛ oz., 40c; pkt., 15c.
CALIFORNIA POPPY. See Eschscholtzia, page 32.
CARDINAL CLIMBER. See Vines, page 52.
CINERARIA. See page 52.
CYCLAMEN. See page 52.

Cuphea

534 **FIREFLY.** For description see Novelty page. **Pkt., 25c.**

Grow Dahlias from Seed

While usually grown from roots and cuttings, fine flowers can be produced in one season from seed, if it is sown early indoors and the plants set out when the ground is warm.

537 **SUPER DAHLIA SEED MIXTURE.** This splendid mixture of large flowering Dahlias is grown by one of California's leading hybridists. This Dahlia specialist has introduced several of America's best Dahlias. From this mixture that we offer some of the leading certificate Dahlias have been grown. **Pkt., containing 20 seeds, $1.25; large pkt., containing 100 seeds, $5.00.**
538 **ADVANCE.** Special strain of large-flowering Dahlias. **Pkt., 40c.**
539 **UNWIN'S DWARF HYBRIDS.** This is a beautiful strain bearing semi-double flowers with an excellent range of color including pink, lavender, red, orange, yellow and maroon. From seed sown in the spring, plants begin flowering in the summer and improve until killed by frost. They grow 2 to 3 feet tall, and abundant flowers cover them. Tubers are produced which can be saved for the next year. They make good pot plants when pinched back. **Pkt., 25c.**
540 **DAHLIA, ZULU STRAIN.** These are black leaved dwarf double hybrids, with flowers of various shades of crimson and scarlet, lightened by a few orange golden and lilac blooms. The plants are compact but vigorous, each flower borne on a very strong straight stem. A very effective bedding strain. **Pkt., 25c.**
FOR DAHLIA ROOTS. (See Summer Flowering bulbs, page 55).

Dianthus - Annual Garden Pinks

Every garden should include some of the pinks because they are so easily grown and make such a wonderful display with their bright colored flowers. The plants are covered with sweet scented flowers all during the summer. Grows about one foot high.

541 **LACINIATUS SPLENDENS.** A free flowering, easily grown annual. The flowers are very large, over 2 inches across, in a brilliant shade of crimson, with a large boldly contrasting glistening white eye. **Pkt., 15c.**
542 **SWEET WIVELSFIELD.** This remarkable hybrid is quite distinct in method of flowering and height of growth from the Annual Sweet William. It has a great variety of color and a very long season of bloom. It is an annual, and requires the same culture as Asters, Stocks and Snapdragons. Sown in a hotbed in February and March, and then into the open ground early in May, it will bloom from June until frost. If sown outdoors in April, it will bloom in August. **Pkt., 15c.**
543 **HEDDEWIGI** (Single Japan Pink). A splendid mixture of single flowers of brilliant shades, brilliantly marked. Plants dwarf and very free flowering. **¼ oz., 25c; pkt., 10c.**
544 **HEDDEWIGI, FL. PL.** (Double Japan Pink). Very double, with deep fringed petals. Colors vary from white to rose, lilac, carmine, crimson, scarlet, purple, brown and almost black, spotted and striped. **Pkt., 10c; ¼ oz., 30c.**
For Perennial varieties, see page 47.

Didiscus - Blue Lace Flower

545 **COERULEUS.** Superb for cut flowers. The long stems terminate in flat clusters of delicate blue flowers not unlike Queen Anne's Lace. **⅛ oz., 30c; pkt., 10c.**

Dimorphotheca—African Daisy

Dimorphotheca

New African Golden Daisies

Most of us know the African Daisies, sometimes called the Star of the Veldt, and have admired their bright blossoms which appear in daisy-like form 2 to 3 inches across. A showy effect is obtained by using mixed colors of African Daisies, and the dark shades of Bedding Petunias, sowing the seed broadcast or setting out the plants informally, giving the appearance of being broadcast. Delights in a sunny situation.

546 **CALENDULACEA, LEMON QUEEN.** This is a dwarf and uniform type, forming very compact plants, with flowers of a deep chrome yellow. It may be sown outdoors about the second week in April, but the best results are obtained by sowing inside in March. Plant out in May, giving a situation exposed to full sun if possible. **Pkt., 15c.**
547 **SALMON BEAUTY.** A large flowering African Daisy of a pleasing true salmon shade, a welcome color addition to this popular flower group. **⅛ oz., 40c; pkt., 10c.**
548 **AURANTIACA.** Golden orange, with dark center. **⅛ oz., 25c; pkt., 10c.**
549 **ORANGE GLORY.** For description see Novelty page 22. **Pkt., 25c.**
550 **MIXED COLORS.** Varying in colors of white, yellow, salmon and orange. **⅛ oz., 35c; pkt., 10c.**

Erysimum (FAIRY WALLFLOWER)

®551 **GOLDEN GEM.** Plant literally covered with golden yellow flowers like a miniature yellow Wallflower. From a sowing early in the year bushy little plants bloom in the succeeding autumn and again burst into full beauty in early spring. Dwarf and compact. Height 10 inches. Excellent for rockeries and small beds. **Pkt., 15c.**

Daisies

BLUE-EYED AFRICAN DAISY. See Arctotis, page 27.
ENGLISH DAISY. See Bellis Perennis. Perennial page 45.
GOLDEN AFRICAN DAISY. Dimorphotheca. See above.
SHASTA DAISY. See Chrysanthemum. Perennial page 45.
MARGUERITE DAISY. See Anthemis. Perennial page 43.
MICHAELMAS DAISY. See Perennial Asters, page 44.
TRANSVAAL DAISY. See Gerbera. Perennial page 47.

DIGITALIS. See Perennial page 46.
DELPHINIUM, ANNUAL. See Larkspur, page 33.
DELPHINIUM, PERENNIAL. See page 46.

Godetia, Sybil Sherwood

Eschscholtzia (CALIFORNIA POPPY)

Easily grown from seed sown outdoors where they are to grow as they cannot be transplanted. They succeed everywhere, are always in bloom, brighten the garden from June until frost. Autumn sowing outdoors gives you early spring flowers.

552 **MONARCH ART SHADES.** A compact strain of large-flowering California Poppies in a mixture which carries its flowers well above the foliage, ideal for bedding. Each bloom is large, semi-double and well formed. The colors range through light rose to deep rose and carmine and from deep golden yellow, to orange and scarlet. Foliage neatly feathered. **Pkt. 15c.**

553 **GLOAMING.** The color, which is an art shade, is difficult to describe. The inside of the petal shows a suffusion of deep rose and apricot on a yellow ground, outside a deep coral-rose. **Pkt., 15c.**

554 **CHERRY RIPE.** A large-flowered variety and of semi-double form; the petals are attractively caniculated. Cherry Ripe is very aptly named, for the flowers remind one of that brilliant and attractive color that is to be found in the ripe cherry. The cup of the flower is deep bright cerise, suffused terra cotta at the base. The beauty of the outside of the petals is enhanced by a "plum" sheen. **Pkt., 20c.**

555 **DOUBLE GOLDEN GLORY.** Golden Glory, with its glorious profusion of golden yellow flowers deepened at the center with orange, is indeed the brightest and showiest of all Eschscholtzias, the glory of the garden. **Pkt., 15c.**

556 **SALMON BEAUTY.** Beautiful double salmon, not variable. This novelty introduced for the first time last year, is salmon both inside and out. Very distinct. **Pkt., 15c.**

557 **SCARLET BEAUTY.** Deep scarlet. **¼ oz., 30c; pkt., 10c.**

558 **GOLDEN WEST.** A very large, bright yellow sort with deep orange at the base of petals. **Oz., 30c; pkt., 10c.**

559 **DOUBLE AND SEMI-DOUBLE VARIETIES.** Mixed. ¼ oz., 35c; **pkt., 10c.**

560 **SINGLE VARIETIES.** Mixed. **Oz., 30c; pkt., 10c.**

Gaillardia - Blanket Flower

565 **INDIAN CHIEF.** A superb variety. Dark mahogany-red flowers. Practically 100 per cent true. A marvel for continuous bloom; in flower from June until October. **Pkt., 15c.**

566 **SINGLE SALMON PINK.** A very pleasing shade. **Pk., 15c.**

PERENNIAL GAILLARDIA. See page 47.

Hunnemannia—Yellow Tulip Poppy

Euphorbia

Strong-growing annuals, suitable for beds of tall-growing plants or mixed borders. The foliage is exceedingly ornamental. Sow outdoors in April.

561 **HETEROPHYLLA.** (Annual Poinsettia; Mexican Fire Plant). An annual, bushy plant, with highly ornamental leaves, which in summer and autumn become dark fiery scarlet. Height 2 to 3 feet. **¼ oz., 35c; pkt., 15c.**

562 **VARIEGATA** (Snow-on-the-Mountain). Elegant, bushy plants, with broad green leaves, veined and margined with white. Attractive foliage. Height 2 feet. **¼ oz., 25c; pkt., 10c.**

Feverfew - Matricaria

563 **DOUBLE MIXED.** Hardy annual. free-flowering. For bedding or pot culture. Showy double white and yellow flowers. 18 inches. **Pkt., 10c.**

Kochia
Mexican Fire Bush

583 **CHILDSI.** A quick growing foliage or hedge plant which forms symmetrical globe-shaped plants about 3 feet high. The foliage is cypress-like in appearance, being finely cut clear green color. Early in the fall it is covered with innumerable little flowers which cause the plant to take on a reddish tinge, hence the name of Fire Bush. Seed can be started early indoors and transplanted, or sown in open border and transplanted or thinned out. Annual. **Oz., 35c; pkt., 10c.**

Four O'clock
(MARVEL OF PERU)

Old-fashioned flowers which are borne on erect, bushy plants, 2 to 3 feet high. Flowers are large, tube-shaped, opening in the afternoon and remaining open all night, and close again in the morning. Very desirable for borders and backgrounds for lower growing plants. Hardy annual.

564 **MIXED.** Comprises all shades. **Pkt., 10c; oz., 25c.**

FORGET-ME-NOT. See Myosotis, page 49.

FOXGLOVE. See Digitalis, page 46.

Geranium - Pelargonium

The heads of gorgeous flowers, of many shades of color, borne continuously, render this one of the most popular plants grown, either for pot culture in winter or for bedding out in summer. Tender perennial.

567 **SINGLE LARGE FLOWERING.** Mixed. **Pkt., 15c.**

Gilia - Queen Anne's Thimble

A new subject for cut flower use. A very easily grown, attractive annual. The plants are neat, upright and semi-compact in habit, 12 to 15 inches high, covered with dozens of the dainty single flaxlike flowers which are borne on long stems.

568 **WHITE SWAN.** Snowy white. **Pkt., 15c.**

569 **BUNCH OF LILAC.** Clear lavender-blue. **Pkt., 15c.**

Globe Amaranth
(GOMPHRENA)

An everlasting, with beautiful colored flowers resembling clover-heads. They retain their color and are lovely in winter bouquets.

570 **MIXED COLORS. Pkt., 10c.**

Godetia - Satin Flower

Attractive, hardy annuals, deserving more extensive cultivation, especially in the cooler parts of the country. The plants bloom profusely, and bear showy flowers, not unlike an Azalea, of satiny texture in many rich and varied colors. They do best in a rather poor soil. 1 foot.

571 **KELVEDON GLORY.** The color is deep glowing salmon-orange, of an intensity and vividness that can be found in no other annual. **Pkt., 20c.**

572 **SYBIL SHERWOOD.** Bright salmon-pink, softened by an indefinite edging of white. **Pkt., 10c.**

573 **DWARF SINGLE EXQUISITE MIXED. ¼ oz., 25c; pkt., 10c.**

Gypsophila - Baby's Breath

Quick-growing, producing great numbers of small flowers in loose, graceful sprays. Valuable for cutting; fine for mixing with other flowers. Blooms quickly from seed and liberal sowings should be made every three weeks from April to July to cut continuously. For early spring flowers sow previous autumn.

574 **ELEGANS ALBA.** (True Covent Garden Strain). A grand improvement, flowers large and pure white. **Oz., 25c; 4 ozs., 85c; pkt., 10c.**

575 **ELEGANS DELICATE PINK.** Pretty blush-pink form of the above and equally valuable for cutting. **Oz., 25c; pkt., 10c.**

®576 **MURALIS.** Dwarf hardy annual; rose-colored flowers, suitable for rock work. Height, 9 inches. **¼ oz., 25c; pkt., 10c.**

FOR PERENNIAL GYPSOPHILA. See page 48.

Helichrysum - Strawflower
For Winter Bouquets

A Strawflower of the easiest culture; one of our best "Everlasting" flowers, the dried double bloom being very handsome in winter bouquets. 2 feet.

577 **DOUBLE MIXED. ¼ oz., 25c; pkt., 10c.**

Heliotrope

578 **LARGE FLOWERED HYBRIDS.** A mammoth flowering variety having enormous quantities of flowers and trusses sometimes measuring 10 to 12 inches across. Very fragrant. Colors vary from pure white through the various shades of blue and purple to indigo. **2 pkts., 25c; pkt., 15c.**

Heteropappus

579 **BLUE DAISY.** One of the finest "blue" plants for late summer and autumn flowering. Plants grow 1½ ft. tall and are literally covered with Marguerite-like flowers, 1 to 1½ inches across, which greatly resemble hardy fall Asters. The color of the beautiful lavender-blue to azure-blue petals is accentuated by the bright yellow central disc. Lasts well when cut. Plants are symmetrical in growth; leaves are produced in rosettes from which arise the much-branched, wiry stems. **Pkt., 15c; ⅛ oz., 30c.**

HELIPTERUM ANTHEMOIDES. See Novelty page 22.

Hunnemannia
(Santa Barbara Poppy; Bush Eschscholtzia; Yellow Tulip Poppy).

581 **SUNLITE.** A double-flowered Poppy which is different. Its extra band of petals is produced on the outside, rather than the inside of the tulip-shaped flowers, giving the impression of being open even after the blossoms have closed for the night. Flowers bright canary-yellow, and the foliage of the 2-ft. bush is light grey-green. Like a sunny position in well-drained soil; flower freely in late summer. **Pkt., 15c.**

582 **FUMARIAEFOLIA.** A single form of the above. **Pkt., 10c; ¼ oz., 25c; oz., 75c.**

Lantana

Half-hardy greenhouse or bedding plants constantly in bloom, bearing miniature verbena-like heads of orange, white, and rose. Start seed indoors early.

584 **DWARF BEDDING HYBRIDS.** Fine for bedding and pot culture. Will bloom freely all summer. **¼ oz., 30c; pkt., 10c.**

Linaria "Baby Snapdragons"

Bright colored Snapdragon-like flowers. The plants are not more than 8 inches high, are very compact in habit, bearing flowers of many distinct colors such as rose, yellow, pink, lavender, carmine, red, violet, white and salmon. Excellent for bedding or for pots. Will do better when sown in boxes and planted out.

600 **FAIRY BRIDE.** Pure white flowers, very large. **Pkt., 15c.**

601 **FAIRY BRIDESMAID.** Citron-yellow. **Pkt., 25c.**

602 **FAIRY BOUQUET.** All colors mixed. **Pkt., 15c; ⅛ oz., 40c.**

FAIRY ROSE. See Novelty page 23.

Linum - Flax

603 **GRANDIFLORUM RUBRUM.** (Scarlet Flax). One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers. Hardy annual. 1 foot. **Pkt., 10c.**

PERENNIAL FLAX. See page 49.

Lobelia

604 **BLUE GOWN.** An excellent new variety, with clear deep blue flowers without eye, and foliage of a bright medium green. Being extremely free-flowering and of a very fine compact habit, it will be found most effective for small beds and edgings. **Pkt., 20c.**

605 **CRYSTAL PALACE COMPACTA.** Rich deep blue; dark foliage. Height 4 to 6 inches. **⅛ oz., 40c; pkt., 10c.**

Giant Imperial Larkspur

Larkspur - Annual Delphinium

Tall showy plants that bloom freely during the summer months. They are very gay and especially useful for massed bedding and cutting. Blooms quickly from seed.

Giant Imperial Larkspur

A new type of Annual Larkspur, developed in California. These Larkspurs are ideal for cut flowers, as the flower stems, three to four feet long, branch from the base of the plant. (See illustration).

585 **BLUE BELL.** Medium blue, deeper than sky blue, yet much lighter than lilac, a color up to this time lacking in the Giant Imperial type.
586 **BLUE SPIRE.** Intense deep Oxford blue.
587 **CARMINE KING.** Deep carmine-rose.
588 **CORAL KING.** Blush pink suffused with coral. Early.
589 **DAINTINESS.** Delicate lavender.
590 **EXQUISITE PINK IMPROVED.** Soft pink shaded salmon.
591 **GLORIA.** A rich tone of deep rose with no trace of carmine.
592 **LILAC QUEEN.** A rich lilac shading to lavender-blue, surpassing all other lilac varieties for color.
593 **LILAC SPIRE.** Beautiful blue color.
594 **LOS ANGELES IMPROVED.** Color brilliant rose on salmon.
595 **PEACH BLOSSOM.** A very delicate clear tone of light pink, no trace of salmon.
596 **WHITE KING.** Pure white. Early.
597 **WHITE SPIRE.** A dazzling pure white.

Any of the above: Pkt., 15c; special pkt., 35c.

598 **IMPERIAL MIXTURE.** Mixture of above named varieties. **¼ oz., 25c; pkt., 10c.**

PERENNIAL LARKSPUR. See Delphinium. Page 46.

COLLECTION OFFER

2590 GIANT IMPERIAL LARKSPURS. One packet each of Blue Spire, Carmine King, Daintiness, Exquisite Pink, and White Spire. **Five 15c pkts., 60c.**

Larkspur, Stock Flowered

599 **ROSAMOND.** The color is new and distinct, a pure bright rose, which has been entirely lacking in Larkspurs up to this time. This variety does not fade badly, but to the contrary holds the purer rose color until out of flowering. It is two weeks earlier than any other stock-flowered variety, giving a good cut flower before other Larkspurs are available. Spikes 4 feet tall covered with double flowers. **Pkt., 15c.**

Lupinus, New King Giants

A new and greatly improved strain of annual Lupinus growing 3 to 4 ft. high.

606 **KING HELIOTROPE.** Rosy purple. **Pkt., 15c; ¼ oz., 25c.**
607 **KING SKY-BLUE.** Light blue. **Pkt., 15c; ¼ oz., 25c.**
608 **KING MIXED.** Contains all colors. **Pkt., 15c; ¼ oz., 25c.**
609 **TEXAS BLUE BONNET.** The flowers are of delightful blue, with distinct heart-shaped eye of deep rosy flesh. Charming bushy plants. Height 15 inches. **1 oz., 35c; pkt., 10c.**
See also Perennial varieties, page 49.

NEW RUSSELL LUPINS. See Novelty page 23.
ANNUAL LUPIN, ATTRACTION. See Novelty page 23.

For more beautiful and luxuriant Sweet Peas and Lupinus, inoculate with Nitragin. See page 53.

MARIGOLD. See next page 34.

Mesembryanthemum - Livingstone Daisy

637 **CRINIFOLIUM** (Livingstone Daisy). Showy daisy-like blooms in a wonderful range of brilliant and varied colors. Of low spreading growth. Sow early outdoors where to bloom. **Pkt., 20c.**

Myosotis - Forget-Me-Not

The following varieties of Myosotis are biennial, but are best treated as annuals, as they will bloom the first year from seed. For early spring flowers, sow seed in August. Protect the plants or winter them over in a cold frame like Pansies, or seed may be sown in a hotbed or cold frame in the spring and they will commence blooming in July. A cool, half-shady place is suitable.

638 **ALPESTRIS, BLUE EYES.** Very early, bright blue. compact habit. **Pkt., 15c.**

639 **ALPESTRIS, ROSE.** This is a lovely shade of bright rose, a rather unusual color. **⅛ oz., 25c; pkt., 10c.**

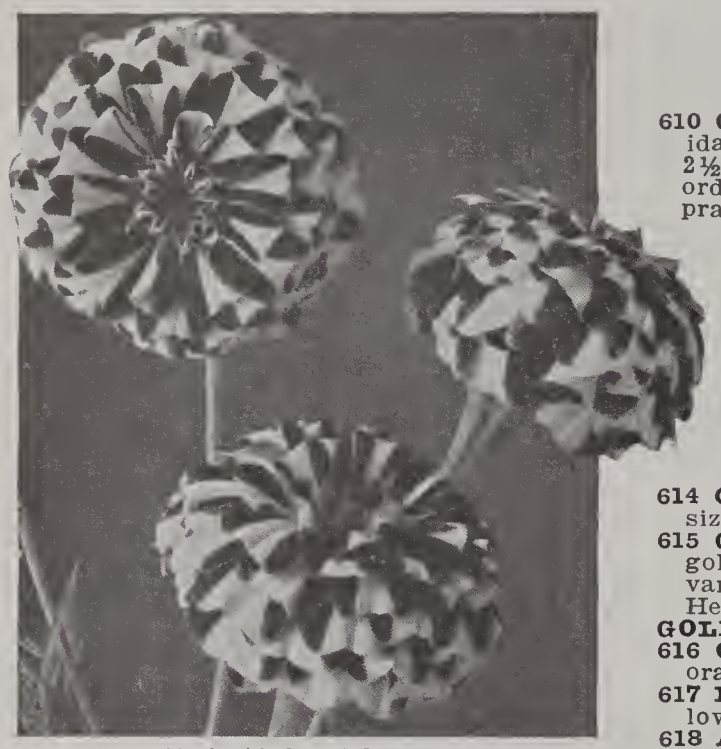
Mignonette - Reseda

Its sweet, delicate fragrance makes this a favorite annual in every garden. Sow in May in the borders or any sunny spot where plants are to remain. It is also grown in pots for winter and early spring flowering. Mignonette prefers a medium light, loamy soil, with only a moderate amount of moisture.

640 **RED MONARCH.** The flower spikes are broad and of perfect form, and the color is the most vivid red imaginable. Its perfume is exceptionally strong. **Pkt., 20c.**

641 **LARGE FLOWERING SORTS.** Special mixture of many shades. **¼ oz., 30c; pkt., 10c.**

Lupine, Giant King, Choice Mixed



Marigold, Royal Scot

Marigolds for Color

African Varieties

610 **GUINEA GOLD.** This is a very distinct type of Marigold of graceful pyramidal habit, growing 2 to 2½ feet high, and producing 30 to 40 flowers, 2 to 2½ inches across, of a brilliant shade of orange flushed with gold. Unlike the ordinary African Marigold, this new variety produces no single flowers, but practically 100 per cent semi-double. The characteristic Marigold odor, too, is much less pungent than in other sorts. **⅛ oz., 25c; pkt., 10c.**

611 **YELLOW SUPREME.** Flowers full double, creamy lemon-yellow, a little larger than those of Guinea Gold. Plants 2 to 3 feet tall, without the usual odor, and are free-blooming. A splendid companion for Guinea Gold. **Pkt., 10c; ⅛ oz., 25c.**

612 **SUNSET GIANTS.** The largest of all Marigolds. A mixture of golden orange, deep golden yellow, light lemon-yellow. **Pkt., 20c.**

613 **COLLARETTE CROWN O' GOLD.** For description see Novelty page 23. **Pkt., 10c; ⅛ oz., 25c.**

COLLARETTE, KING'S RANSOM. See Novelty page 23.

COLLARETTE, YELLOW CROWN. See Novelty page 23.

614 **CHRYSANTHEMUM-FLOWERED HYBRIDS.** Quilled and incurved of good size, shades of orange and yellow. **Pkt., 15c.**

615 **GOLDEN BEAUTY.** A new color in African Marigolds, being a soft, pure golden yellow. Golden Beauty is to be preferred to either the Lemon or Orange varieties hitherto available. It has semi-quilled petals and is intensely double. Height, 3 feet. **Pkt., 15c.**

GOLDEN WEST. See Novelty page 23.

616 **ORANGE PRINCE.** Large, perfectly double, quilled flowers of a deep golden orange color. **¼ oz., 25c; pkt., 10c.**

617 **LEMON QUEEN.** A lovely counterpart of Orange Prince of a soft lemon yellow color. **¼ oz., 25c; pkt., 10c.**

618 **AFRICAN DOUBLE MIXED.** Comprises various shades and well-adapted for large beds or mixed borders. **¼ oz., 20c; pkt., 10c.**

The Queen Strains of Marigolds

Large Flowered Dwarf African Type

This new strain of African Marigolds will rapidly find favor for bedding. The plants are sturdy and when well grown form perfect pyramids, each carrying as many as 30 to 40 flowers fully open at the same time. The large blooms, measuring as much as 3 inches across, have flattish petals which take away from the plant that coarseness sometimes associated with African Marigolds. The following varieties will produce at least 90 per cent of double flowers. Height 18 inches.

619 **ORANGE QUEEN. Pkt., 15c.**
620 **PRIMROSE QUEEN. Pkt., 15c.**
621 **YELLOW QUEEN. Pkt., 15c.**
622 **GOLDEN QUEEN. Pkt., 15c.**

623 **QUEEN STRAIN MIXED.** A mixture of orange, primrose, yellow and golden shades of the dwarf African Marigold. **Pkt., 15c.**

Marigold, Mexican

624 **DWARF ORANGE.** Hailing from Mexico, the original home of so many of our favorite garden flowers, this handsome new type grows 15 to 18 inches high and bears large double flowers of a bright orange. It is different in character from the old African Marigold, being more branching than the latter and extremely free flowering. **Pkt., 15c.**

Dwarf Double French Varieties

This class of Marigolds will form dense bushes not over 12 inches high and are unequalled for borders or low beds.

625 **GOLDEN BALL.** Very compact, large golden yellow flowers.

626 **GOLDEN YELLOW.** Bright golden yellow flowers, having a brown margin.

627 **LEMON BALL.** Very compact, flowers pale sulphur-yellow.

628 **ROBERT BEIST.** Dark maroon or mahogany-brown.

629 **SPOTTED.** Yellow, spotted brown.

Price: Any of the above, ¼ oz., 25c; pkt., 10c.

2618 **COLLECTION.** Contains one packet each of the above five dwarf double French Marigolds. **35c.**

630 **HARMONY.** While this variety is listed as a dwarf French Double variety, it is of a very charming and distinct type. The flowers are quite different from any other Marigold, Scabiosa-like in formation with tubular deep orange center petals flanked by broad velvety dark maroon-brown guard petals. Will bloom very early. **Pkt., 15c; ¼ oz., 25c.**

631 **ROYAL SCOT (DWARF) ALL DOUBLE.** A new strain of Dwarf Striped French Marigold. Color, is rich mahogany and gold in uniform stripes. Absolutely double. **Pkt., 15c.**

632 **DWARF FRENCH DOUBLE MIXED.** Comprising all shades. Very double **¼ oz., 20c; pkt., 10c.**

Marigold Tom Thumb

633 **GOLDEN CROWN.** A dwarf form of Marigold Guinea Gold, growing about 10 inches high possessing all the merits of its parent. The bright golden yellow flowers, larger and of the same elegant shape and firm substance, are produced in great abundance often to the number of 25 to 30 on a full grown plant. Practically all double. **Pkt., 25c.**

Tall Single French Marigolds

634 **JOSEPHINE.** Its long stems make it ideal for cutting, and the velvety textured, golden brown flowers have a thread-like golden edge which gives them an unusual distinction. Considerable variation in flower markings must be expected, even from flowers growing on the same plant. Growth somewhat straggly; height 2 to 2½ feet. Best used in center of beds or for filler in perennial borders. Don't miss this one. **Pkt., 10c.**

Dwarf Single French Marigolds

635 **FIRE CROSS.** In habit it resembles the well-known Legion of Honor, so much in demand for edging, but the unusually large golden orange flowers have a broad frill of eight wavy rays, each of which bears a striking blotch of fiery crimson, giving a multiple cross effect in the center. **Pkt., 10c.**

®636 **LEGION OF HONOR. (Little Brownie).** A single flowering Marigold, forming compact bushes 9 inches high. Begin flowering early, commencing in June, continuing until frost. The flowers are golden yellow, marked with a large spot of velvety crimson at the base of each petal. **¼ oz., 25c; pkt., 10c.**

POT MARIGOLD. See Calendula. Page 29.

PIGMY MARIGOLD. See Tagetes. Page 39.

MICROSPERMA, GOLDEN TASSEL. See Novelty page 23.

Marigold, Yellow Supreme

New Double Nasturtium

Nasturtiums will really grow on soils incapable of supporting many other plants, and are most useful on dry, sandy, or gravelly banks. In very dry seasons the Tall sorts have a tendency not to run on a poor soil, and if a trellis is to be covered quickly the plants should be encouraged by watering in the early stages of growth; in wet seasons the Dwarfs have a tendency to run and to produce more leaves than flowers, and they should therefore be sown on as poor a soil as possible.

New Double Sweet Scented

These Nasturtiums are of a vigorous bushy habit, producing a few short runners which are thickly studded with long-stemmed double blooms.

642 **FIRE GLEAM.** Bright scarlet.
643 **MOONBEAM.** Soft primrose.
644 **ORANGE GLEAM.** Deep golden orange.
645 **GOLDEN GLEAM.** Golden yellow.
646 **SCARLET GLEAM.** Fiery scarlet.

Any of the above varieties: Pkt., 10c; oz., 20c.

647 **GLEAM HYBRIDS.** Containing all colors. **Pkt., 10c; oz., 20c.**

Dwarf Double Gem Varieties

A dwarf compact strain of sweet scented double Nasturtiums. Plants are compact and entirely without runners.

648 **GOLDEN GLOBE.** Golden yellow flowers, very compact. **Pkt., 10c; oz., 25c.**
649 **FIREBRAND.** Brilliant cerise-scarlet. **Pkt., 25c.**
650 **DWARF DOUBLE GEM MIXTURE.** Contains an excellent mixture of yellow, orange, scarlet, salmon, cerise, cream and maroon, both light and dark foliage. **Pkt., 15c; oz., 35c.**

Lilliput Nasturtiums

Height, 9 in.

651 **SALMON QUEEN.** A deep salmon-rose fine for edging. **Pkt., 15c.**

Dwarf Nasturtiums

Height, 1 foot

652 **DWARF MIXED.** Comprises all varieties and shades. **Oz., 15c; ¼ lb., 45c; 1 lb., $1.50; Pkt., 10c.**

Tall Nasturtiums

653 **TALL MIXED.** Comprises all varieties and shades. **Oz., 15c; ¼ lb., 45c; 1 lb., $1.50; pkt., 10c.**

Nemesia

654 **STRUMOSA SUTTONI MIXED.** Flowers are ½ inch across and are borne in great profusion. The color ranges from white through pale yellow and rose, to orange and crimson, with numerous intermediate shades and a great variety of throat markings. This South African plant is 1 foot high and blooms from June to September. Start seed indoors in March and set plants out in May. This is a bedding annual suited for shady locations and for pot culture. **Pkt., 15c.**
NEMESIA, BRIGHTNESS. See Novelty page 24.

Nemophila - California Blue Bell

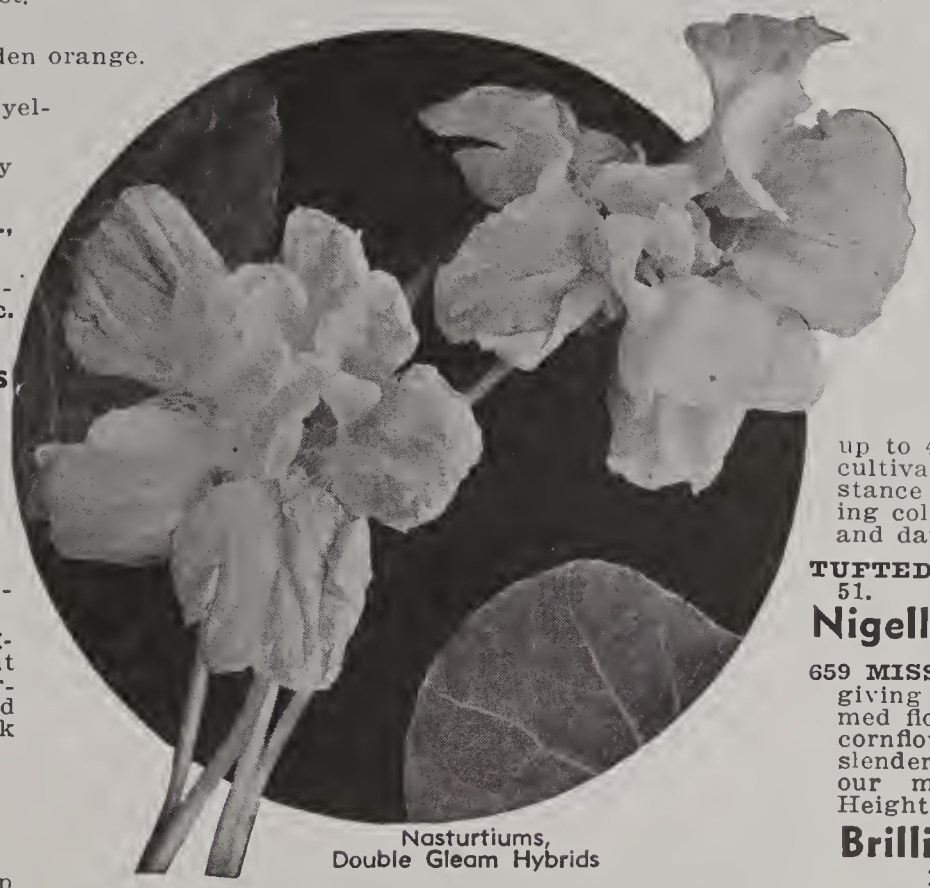
655 **INSIGNIS BLUE.** (Baby Blue Eyes). Splendid trailing annual, 6 inches high, fine for edging borders, or rock gardens. Cup-shaped, sky-blue flowers from late spring until frost. **¼ oz., 25c; pkt., 10c.**

Nicotiana

One of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia, but with a longer tube. The flowers open toward evening and emit a powerful perfume.

656 **CRIMSON BEDDER.** The flowers are a rich deep carmine. Plants are of dwarf, pyramidal habit, not over 15 to 18 inches in height; therefore very effective for mass bedding or for planting in small groups. **Pkt., 15c.**
657 **ORANGE BLOSSOM (suaveolens).** An elegant small flowered pure white species, delightfully sweet-scented. **Pkt., 15c.**
658 **AFFINIS HYBRIDS.** Splendid mixture of blue, red and rose shades. **Pkt., 10c.**

NOLANA, BLUE ENSIGN. See Novelty page 24.



Nasturtiums, Double Gleam Hybrids

Giant Pansies

This popular annual is so well known that it needs little description. Pansies are easily grown and bloom profusely for many months. Sow the seed indoors early in March or outdoors as early as the ground can be prepared. If sown during August, and wintered over in a cold frame, the plants will begin blooming very early the following spring and continue their showy display throughout the summer.

CORONATION GOLD. See Novelty page 24.
660 **ENGLEMANN'S GIANTS.** Dark and light shades, huge flowers, very compact and early flowering. **Pkt., 50c.**
661 **SWISS BLUE (Ullswater Blue).** A solid blue flower with blue-black blotches. **Pkt., 25c.**
662 **SWISS GIANTS.** This strain of Pansies is the most sensational novelty of many years. The seed we offer will produce flowers of gigantic size, perfectly round, and produce many new color combinations and shades previously unknown in pansies. Blooms early. **Pkt., 25c.**
663 **TRIUMPH OF THE GIANTS.** A rich mixture of bright colors with many delightful variations and markings. **⅛ oz., $1.00; pkt., 20c.**
665 **CHOICE BEDDING MIXED.** Contains a complete range of colors. Blossoms slightly smaller than the giant types. **⅛ oz., 30c; ¼ oz., 50c; pkt., 10c.**
664 **MAPLE LEAF GIANT MIXTURE.** A distinct variety and quite different from other types. The leaves are of giant size and the flowers are up to 4 inches across, under good cultivation. Of wonderful substance and fine form. Many charming colors are included, both light and dark shades. **Pkt., 40c.**

TUFTED PANSIES. See Viola, page 51.

Nigella - Love-in-a-Mist

659 **MISS JEKYLL.** Lovely variety giving an abundance of long-stemmed flowers which are of a clear cornflower-blue, prettily set in slender elegant foliage. One of our most attractive annuals. Height 18 inches. **Pkt., 10c.**

Brilliant Annual Phlox

FLAME FLOWER

For a color effect in the garden there is nothing quite so brilliant and quite so lasting. Quickly grown from seed. They succeed best in a sunny open situation, preferring a light, rich loam. For early flowers, sow seed indoors or in hotbed in March; or they may be sown in open ground from late April until July. If faded flowers are removed, they will bloom until frost.

GRANDIFLORA VARIETIES—Height 1 Foot

710 **ALBA.** Pure white. **Pkt., 10c; ¼ oz., 40c.**
711 **BRILLIANT.** Bright rose. **Pkt., 10c; ¼ oz., 40c.**
712 **CARNEA.** Pale flesh. **Pkt., 10c; ¼ oz., 40c.**
713 **COCCINEA.** Fiery scarlet. **Pkt., 10c; ¼ oz., 40c.**
714 **PRIMROSE.** Buff-yellow. **Pkt., 10c; ¼ oz., 40c.**
715 **LEPOLDI.** Deep rose, white eye. **Pkt., 10c; ¼ oz., 40c.**
716 **VIOLET.** With white eye. **Pkt., 10c; ¼ oz., 40c.**
717 **GRANDIFLORA MIXED.** An extra choice strain of the best large-flowered varieties, unexcelled in profusion and brilliancy of bloom and color. **Pkt., 10c; ¼ oz., 30c.**

SPECIAL COLLECTION ANNUAL PHLOX
2717. Contains one packet each of the 7 separate varieties offered above. Value, 70c, for **50c.**

718 **NEW ART SHADES.** An extra large flowering strain producing flowers in a wonderful range of soft art shades including tones of salmon, apple blossom, soft rose, light violet, etc., many with lighter eye. Flowers very large. Plants about 9 inches high. **Pkt, 15c.**

Phlox Nana Compacta—Dwarf

A dwarf compact type, growing 6 to 8 inches tall. Free flowering. Excellent for dwarf beds and borders.

719 **APRICOT.** Yellow. **Pkt., 15c; ⅛ oz., 50c.**
720 **FIREBALL.** Scarlet. **Pkt., 15c; ⅛ oz., 50c.**
721 **ISABELLINA.** Primrose. **Pkt., 15c; ⅛ oz., 50c.**
722 **SNOWBALL.** Pure white. **Pkt., 15c; ⅛ oz., 50c.**
723 **SUNRISE.** Chamois-pink. **Pkt., 15c; ⅛ oz., 50c.**
724 **VIOLET.** With white eye. **Pkt., 15c; ⅛ oz., 50c.**
725 **DWARF MIXED.** Includes all of the above colors. **Pkt., 15c; ⅛ oz., 45c; ¼ oz., 80c.**
726 **CUSPIDATA MIXED.** (Star Phlox). Star-shaped flowers with laciniated petals. **Pkt., 10c; ¼ oz., 40c.**

PERENNIAL PHLOX. See page 49.

PETUNIAS for All Purposes

A very useful and free-flowering annual, thriving on any soil and in the hottest weather. For a showy bed, or for porch or window boxes, few plants equal the Petunia, in effectiveness. Sow the seed in pots or flats in the house or hotbed in February or March, or in the garden as soon as the soil is warm. Cover the seed but slightly as it is very fine.

Large Single Flowering Varieties

666 **SINGLE FRINGED DAINTY LADY.** Not for many years has an entirely new color in Petunias been introduced to the gardening public. Various new shades of rose, pink, blue and crimson may be expected from season to season, but we now present for your critical approval a distinct new hue in the Petunia color cycle—delicate golden yellow. The Dainty Lady, the remarkable Petunia introduction is, to the best of our knowledge, the first really yellow Petunia. It has been in the process of development for the past ten years, gradually but surely deepening the color, until this season it is ready for presentation. The plants are neat, compact, semi-dwarf and free flowering, bearing generous quantities of the medium sized, delicately fringed light golden yellow flowers throughout the summer. You and your friends will be thrilled with this brand new Petunia color. Plant it in a border with Verbena Lavender Glory, or Ageratum Blue Ball, for good contrast of color. **Pkt., 35c.**

667 **SETTING SUN.** The result of a cross between Petunia grandiflora fimbriata, Brilliant Rose, and a dwarf variety. It comes true from seed and forms compact bushes 12 inches high, covered with beautifully fringed blossoms of a brilliant rose-pink, measuring 3 inches across. It is admirably suited both for growing in pots and for borders. **Pkt., 35c.**

668 **ELK'S PRIDE.** Immense flowers of rich deep Elk's purple, with large lobes forming a five-pointed star. The velvety black veins add much beauty. **Pkt., 25c.**

669 **DIENER'S PINK GLORY.** Large, well-formed flowers of a most exquisite luminous pink, shaded with a contrasting white throat, and marked with creamy white veins. **Pkt., 35c.**

670 **THEODOSIA.** Large, fringed, rosy pink flowers with a clearly defined golden center. **Pkt., 35c.**

671 **WHITE CLOUD.** Pure white, very dwarf and compact. **Pkt., 25c.**

672 **DWARF WHITE GLORY.** This is the nearest to the variety White Cloud but is much whiter, dwarfer and more compact. The flowers are the purest white and the uniformity of the dwarf compact growth is marvelous. This variety is one of the best large-flowering single white Petunias. **Pkt., 40c.**

673 **SNOWSTORM.** A glorious new Petunia of gigantic size. Flowers averaging 4 inches in diameter and beautifully frilled. Pure white and the plants are in continuous bloom. **Pkt., 35c.**

674 **BURGUNDY.** Large single flowers of a deep Burgundy-red enhanced by a rich velvety sheen. The throat, which is white, veined purplish red, creates a beautiful contrast. The flowers measure 3½ inches across. **Pkt., 25c.**

Large Single Flowering Mixtures

675 **DWARF GIANTS.** (Ramona Strain). A dwarf, sturdy growing type, especially suited for pot culture. Flowers are beautifully ruffled and fringed with open well-marked throats. The mixture contains a good assortment of the most desirable dark and light shades which are well balanced. **Pkt., 50c.**

676 **RUFFLED MONSTERS.** A half dwarf type of erect and robust habit. The flowers are very large and ruffled, with open shallow throats. The colors are mostly the desirable red and dark shades, richly marked and veined. **Pkt., 35c.**

Double Flowering Varieties

677 **ALL DOUBLE VICTORIOUS MIXED.** An extra dwarf giant mixture of Fringed Petunias producing flowers 100% double. Habit very compact. The plants are remarkably uniform in habit producing a wonderful assortment of brilliant and fancy colorings. Very free flowering; an exceptionally fine strain for pot culture as well as for bedding. Height 12-13 inches. **Pkt., 50c.**

678 **GAIETY.** For description, see Novelty page 24. **Pkt., 60c.**

New Petunia, Nana Compacta

A new strain of dwarf compact miniature Petunias, forming plants from 6 to 9 inches high, literally smothered with flowers. Plants about 8 inches wide.

679 **MARTHA WASHINGTON.** A new break in Petunias. Martha Washington is a ruffled or frilled Petunia. Its growth is about 9 inches high, and it forms a perfect ball effect, literally smothered with lovely frilled blooms about 3 inches in diameter. Its neat, compact habit makes it suitable for borders, bedding, pots or window boxes. This is a unique novelty in Petunias. Color a blush-pink veined a wine-red; throat a dark violet. **Pkt., 20c; 3 pkts., 50c.**

680 **BRILLIANT ROSE GEM.** This Petunia is a very rich deep rose with a slight suffusion of scarlet. We recommend Brilliant Rose Gem for those who want a strong color, one that will withstand the utmost in hot strong sunlight. **Pkt., 20c.**

681 **PINK GEM.** Flowers clear pink, measuring 2 inches in diameter. **Pkt., 15c.**

682 **MINIATURE MIXED.** A mixture of light and dark pink including the ruffled Martha Washington which is described above. **Pkt., 20c; 3 for 50c.**

Petunia
Single Bedding Varieties

Growing about 12 to 18 inches high.

683 **BLUE BEE.** Pure rich violet. The same shade of violet-blue as the popular Viola, Jersey Gem. **Pkt., 20c.**

684 **FLAMING VELVET.** Brilliant velvety scarlet. **Pkt., 15c.**

685 **GENERAL DODDS.** Velvety dark red, nearly black; a scarce color among Petunias. Dwarf, compact bushes. **Pkt., 15c; 2 pkts., 25c.**

686 **HOWARD'S STAR.** This grand Petunia has flowers 2 to 2½ in. in diameter, of fine texture, with more or less veining. Ground color a crimson-maroon. In the center of each flower is a five-rayed star of light bluish pink or white. Height of plants, 1½ to 2 ft. **Pkt., 10c; ⅛ oz., 45c.**

687 **ROSE KING IMPROVED.** A large free blooming clear deep pink. **Pkt., 15c.**

SALMON SUPREME. See Novelty page 24.

TOPAZ ROSE. See Novelty page 24.

688 **CHOICE SINGLE MIXED.** A fair mixture of good coloring which bears moderate sized flowers and is extremely free-flowering. **Pkt., 10c; ¼ oz., 25c; oz., 75c.**

Petunia
Single Dwarf Bedding

Varieties growing 8 to 12 inches high.

689 **ADMIRAL.** Rich violet-blue with waved flowers on compact plants. **Pkt., 20c.**

690 **ALDERMAN.** Beautiful dark violet. **Pkt., 15c.**

691 **BLUE BEDDER.** Mid-blue. **Pkt., 15c.**

BLUE GEM. See Novelty page 24.

692 **COCKATOO.** The plants attain a height of 8 to 12 inches and are round and compact. The flowers are a velvety deep violet-purple, with irregular sized white spots and stars which give to the plant and bed an extraordinarily gay and vivid appearance. **Pkt., 15c.**

693 **CELESTIAL ROSE.** Improvement on Rose of Heaven. More compact in growth and deeper in color, a beautiful rich satiny rose. **Pkt., 20c.**

694 **DELIGHT.** A large flowering dwarf compact bedding Petunia with flowers often 3½ inches or more across, of a lovely shade of rose-pink. **Pkt., 25c.**

GAIETY. See Novelty page 24.

695 **HEAVENLY BLUE.** Silvery light blue. **Pkt., 15c.**

696 **PERIWINKLE.** A delightful shade of pastel-blue, resembling very much the perennial Vinca (Periwinkle), hence its name. The flowers are large, bold, five-pointed, and the plant is compact with a profusion of mid-blue flowers. **Pkt., 15c.**

697 **ROSY MORN.** Dwarf extra select. Soft carmine-pink with white throat; makes a very dainty and at the same time effective border. **1/16 oz., 25c; ⅛ oz., 50c; ¼ oz., 90c; pkt., 15c.**

698 **ROSE OF HEAVEN.** This would be our choice if the space available permitted the planting of only one variety of Petunia. It excels by its marvelous color—a brilliant crimson-rose of rare purity. **Pkt., 10c; 1/16 oz., 25c; ⅛ oz., 40c.**

699 **SINGLE DWARF BEDDING MIXED.** Includes all the varieties listed above as well as many others. **Pkt., 10c; ⅛ oz., 25c.**

Petunia
Balcony or Large-Flowered

A splendid large and free-flowering type for window boxes, vases, hanging baskets, etc., the flowers average 3 inches across and make a very effective display over a long season.

700 **BLACK PRINCE.** (New). Deep velvety red. **Pkt., 15c.**

701 **BLUE.** Velvety indigo-blue. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**

702 **COPPERY ROSE.** Enormous flowers with a dark throat deeply veined. **Pkt., 15c.**

703 **CORNFLOWER BLUE.** (Blue Wonder). Rich, deep blue. Several shades lighter than Balcony Blue. **Pkt., 15c.**

704 **CRIMSON.** Rich velvety crimson. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**

705 **DAMASK ROSE.** Large flowers, 3 to 4 inches in diameter. Color brilliant Tyrian rose shade, with a distinctly veined design of a deeper shade of spectrum-red. **Pkt., 15c.**

706 **ROSE.** Brilliant rose-pink; very effective. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**

707 **VENOSA.** Malva-pink veined. **Pkt., 15c.**

708 **WHITE.** The pure white form. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**

709 **BALCONY MIXED.** A mixture of the above varieties. **Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.**

2709 COLLECTION OF BALCONY PETUNIAS. Contains 1 packet each: Blue, crimson, Venosa, rose and white. (Value 75c) **for 50c.**

Poppies *for Delicate Tints*

Sow seed in the fall or early spring where they are to bloom, as they are difficult to transplant. They flower quickly from seed and thrive best in a light loamy soil. Successive sowings should be made to provide continuous blooming.

Double Annual Poppies

727 **DAZZLER.** A bright orange-scarlet. **Pkt., 10c; ¼ oz., 25c.**

728 **SWEET BRIAR.** A delightful shade of deep rose-pink. The blossoms are double, resembling a very large double Begonia. **Pkt., 10c; ⅛ oz., 25c.**

729 **DOUBLE SHIRLEY or BEGONIA FLOWERED MIXED.** Beautiful double satiny flowers in every conceivable color. **Pkt., 10c; ¼ oz., 25c.**

730 **PEONY FLOWERED MIXED.** Very large, double poppies with somewhat broader petals in many pleasing shades. Height, about 2 ft. **Pkt., 10c; ½ oz., 25c; oz., 40c.**

Single Annual Poppies

731 **AMERICAN LEGION.** A greatly improved English scarlet or Flanders Poppy, with very large flowers of dazzling orange-scarlet. 2 ft. **Pkt., 10c; ½ oz., 25c; oz., 40c.**

732 **BLUE SHIRLEY.** Various blue shades. **Pkt., 10c; ¼ oz., 25c.**

733 **PICOTEE.** White, edged scarlet. **Pkt., 10c; ¼ oz., 25c.**

734 **TULIP.** One of the most brilliant of poppies, bearing bright scarlet tulip-shaped flowers with a dark spot at the base of each petal. It makes a gorgeous display in masses. Grows about one foot high. **Pkt., 10c; ½ oz., 25c; oz., 40c.**

735 **WILD ROSE.** A Shirley Poppy with silky petals of a beautiful wild rose shade. Height, 18 inches. **Pkt., 10c; ¼ oz., 25c; oz., 60c.**

Annual Poppies

736 **SINGLE SHIRLEY.** A beautiful sort which blooms a long season and bears large single flowers of flat but artistic shape. Most petals are of very silky texture with an intense sheen. Others plain, some crimpled, some like tissue paper and others wavy. Colors range through shades of pink, rose, scarlet, carmine, and are generally edged with lighter shades. **Pkt., 10c; ½ oz., 25c; oz., 40c.**

PERENNIAL POPPIES. See page 50.

Portulaca - Moss Rose

Portulacas enjoy the hottest, dryest situation and will grow in almost any soil. Foliage is thick and succulent, like that of a Sedum, and the flowers resemble single and double Roses. They bloom most freely throughout the summer and fall. Scatter a few seeds in your rockery or anywhere to fill up empty spaces. Sow seed in May when the ground is warm and it is well to mix the seed with dry sand or soil to ensure an even distribution.

Large-Flowering Single Varieties

737 **WHITE.** 739 **PINK.**
738 **YELLOW.** 740 **CRIMSON.**
Any of the above, **pkt., 10c; ⅛ oz., 75c.**

®741 **SINGLE MIXED. Pkt., 10c; ¼ oz., 20c.**

Large-Flowering Double Varieties

®742 **MIXED COLORS.** Comprises a wide range of colors. **Pkt., 10c; ⅛ oz., 50c.**

Rudbeckia, Kelvedon Star

Phacelia

743 VISCIDA. A most lovely, hardy annual. The blooms are saucer-shaped and of the most brilliant blue. The plants are a foot or more high. The flowers are large brilliant deep blue, pale and dotted in the center. This is not a novelty but a little known annual, a native of California, which deserves a place in our gardens. **Pkt., 15c.**

Rudbeckia

746 KELVEDON STAR. A perfect long-stemmed flower for cutting, a sturdy and floriferous plant for bedding. The flowers vary both in form and in coloring, but all have dark brown centers, surrounded by a shining mahogany zone, deep golden petals. It is a rampant grower, reaching a height of 3 feet, and should be planted 18 inches apart, with 2 feet between rows. Will bloom from June until frost. Sowings should be made in February or March and the seedlings planted out during early May. **Pkt., 20c.**

Salvia - Scarlet Sage

One of the most useful and effective bedding plants, which produces immense masses of brilliant turkey-red flowers from early in the season, continuing in uninterrupted succession until frost. Blooms are borne on long spikes well above the foliage and continue in good condition a long time. Spikes are often 8 to 10 inches long and have 30 to 40 tube-like flowers born in a feathery manner on each side of the stem.

748 SPLENDENS. Tall growing sort with dark green foliage and bright fiery scarlet blooms. Annual. Height, 2¼ to 3 ft. **Pkt., 10c; ⅛ oz., 35c; ¼ oz., 60c.**

749 AMERICA or GLOBE OF FIRE. This is the freest and most continuous blooming of all the Scarlet Sages, also the most uniform in habit of growth, which makes it particularly valuable for bedding or planting in lines. **Pkt., 15c; 2 pkts., 25c; ⅛ oz., 70c.**

BLAZE OF FIRE. See Novelty page 25.

DWARF GEM. See Novelty page 25.

750 FARINACEA (Blue Bedder). A more compact form of the graceful Salvia Farinacea, growing about 2½ feet high, and with a better habit, the plants branching freely from the base. The flowers, borne on long terminal spikes, are of a bright mid-blue, deeper than in the type, and very showy and effective. The plant is vigorous and fairly hardy, and may be had in bloom from August to October. **Pkt., 20c.**

PATENS, DWARF GEM. See Novelty page 25.

Sanvitalia

(Creeping Miniature Zinnia)

751 PROCUMBENS FL. PL. 6-inch. Sanvitalia flowers are much like tiny Zinnias, golden yellow with very dark purple centers, some single and others double. The plants are prostrate and creep over the soil instead of growing upward. They start blooming in June and continue until frost. **Pkt., 10c; ⅛ oz., 30c.**

Salpiglossis - Painted Tongue

A very showy, half-hardy annual which is desirable both for bedding and border plants. Has richly colored funnel-shaped flowers of many shades including yellow, buff, crimson and scarlet and extends through to purple and almost black.

747 GRANDIFLORA MIXED. All colors. **Pkt., 10c; ⅛ oz., 25c.**

Salpiglossis—Painted Tongue

Ricinus

(CASTOR BEAN)

744 ZANZIBARIENSIS. Grows to immense size. Leaves sometimes measure 30 inches across and range in color from bright green to deep bronze. Choice mixed colors. **Pkt., 10c; oz., 25c; 4 ozs., 75c.**

745 MIXED SORTS. A desirable mixture of all varieties. **Pkt., 10c; oz., 20c; 4 ozs., 60c.**

Scabiosa

Sweet Scabiosa

(Pincushion Flower, Mourning Bride)

One of the old-fashioned popular annuals which produce an abundance of many colored flowers excellent for cutting. Blossoms are borne on long stems, are fragrant, double and somewhat the shape of a pincushion. An effective plant for bedding or borders.

Seed can be sown in open border and thinned out from 1 to 1½ ft. apart. Grows 2 to 2½ ft. high.

752 ROSETTE. As the result of many years' selection and painstaking care in Rosette has been created a glorious new color in Annual Scabiosa. Rosette is a beautiful shade of deep rose, heavily suffused with salmon. The flowers are extra large and the stems are long and stiff. This glorious, glowing new color will undoubtedly make Rosette a most popular flower for the garden and also with the florist for cutting. A fitting companion to Scabiosa Loveliness, Peach Blossom and Shasta, which have received Awards of Merit from the Royal Horticultural Society. **Pkt., 15c; ⅛ oz., 35c.**

753 BLUE COCKADE. This outstanding novelty is deeper than Azure Fairy in color, but the flowers are entirely devoid of any suggestion of rose. They are, in fact, the purest deep azure-blue that can be found in any annual. The formation of the flower is far ahead of existing varieties, and has so great a depth as to be almost conical in shape. **Pkt., 15c; ⅛ oz., 25c.**

754 GIANT LOVELINESS. Soft delicate salmon-rose. **Pkt., 15c; ⅛ oz., 25c.**

755 PEACH BLOSSOM. A beautiful shade of peach-blossom-pink, of large size and long stem. An excellent cut flower. **Pkt., 10c; ⅛ oz., 25c.**

756 SHASTA. A pure white of enormous size, the flowers measuring 3½ inches across with extremely long stems. **Pkt., 10c; ⅛ oz., 25c.**

757 AZURE FAIRY. Clear lavender-blue. **Pkt., 10c; ¼ oz., 25c.**

758 CRIMSON. Rich rosy crimson. **Pkt., 10c; ¼ oz., 25c.**

759 YELLOW. Pkt., 10c; ¼ oz., 25c.

760 KING OF THE BLACKS. Pkt., 10c; ¼ oz., 25c.

761 TALL DOUBLE MIXED. A splendid sort for large beds or borders. Comprises many beautiful colors. Height, 2½ ft. **Pkt., 10c; ¼ oz., 25c; oz., 60c.**

Scabiosa Collection

2761 Contains 1 packet each of Azure Fairy, Peach Blossom, Crimson, Shasta, Loveliness and King of the Blacks. **Value 65c, for 50c.**

Stocks, Giant Imperial

Sweet Pea, Fantasy Mixture

791 FANTASY MIXTURE. A unique and an entirely fresh class of Fantasy markings and colorings. Every flower in Fantasy Mixture is beautifully veined and watered. Orange, light and dark blue, all shades of pinks, chocolates, lavenders, maroons, mauves, and many other colors are represented. This new mixture makes an exceptionally attractive bouquet and being a very strong strain, will be welcomed for general garden work. Its value is further enhanced by the exceptionally strong and fragrant scent. **Pkt., 20c.**

Sweet Peas, Fantasy Mixture

Schizanthus

(Butterfly Flower or Poor Man's Orchid)

An attractive hardy annual growing about 20 inches high, of neat, compact growth, and with finely cut foliage. The plant bears very attractive flowers ranging in colors from white to purple and are shaded from their edges to throats with darker colors. Flowers resemble somewhat the butterfly and are borne in clusters or spikes. Seed can be sown outdoors after danger of frost, or started earlier indoors and transplanted.

762 FINEST MIXED COLORS. Pkt., 10c; 1/16 oz., 50c.

SNAPDRAGON. See Antirrhinum, page 27.

Statice

The annual Statice is not only a beautiful flower in the border, but dries retaining its true colors, which are rare among everlastings. Indispensable in making winter bouquets.

763 RUSSIAN (Suworowi or Rat Tail). Flowers bright rose color. Height 30 inches. **Pkt., 15c.**

Stevia

764 SERRATA. Free-blooming tender perennial, bearing a multitude of fragrant, pure white flowers; suitable for summer bedding or winter blooming under glass. Excellent for cutting. **Pkt., 15c.**

Stocks - Cut-and-Come-Again

NEW DOUBLE EXCELSIOR COLUMN "Non-Branching"

This new class of Stocks produces only one spike of enormous size with large flowers, 2½ to 3 feet high. They can be planted close together on the greenhouse bench which makes them a profitable variety.

765 EXCELSIOR MIXED. Pkt., 35c.

Early Giant Imperial (Improved Bismarck)

One of the best Stocks for inside and outside planting. The plants grow in pyramidal form, covered with large double flowers.

766 GIANT IMPERIAL MIXED. Pkt., 15c.

Double Large Flowering Dwarf Stocks

Ten Weeks' Stocks

Sweet-scented, double flowers on strong spikes. Fine for the garden; 15 to 18 inches tall.

767 FINEST MIXED. All colors. **Pkt., 10c; ⅛ oz., 40c; ¼ oz., 75c.**

Sunflower - Helianthus

(Hardy Annual)

Of easy culture, and the newer sorts are among the most ornamental and effective of all garden annuals. The single flowering sorts are indispensable for cutting. Bloom early and continue until frost.

768 CHRYSANTHEMUM-FLOWERED. Fine, perfectly double golden flowers, resembling Japanese Chrysanthemums; 6 to 10 inches in diameter. Plants grow to the height of 5 to 6 ft. **Pkt., 10c; oz., 30c.**

769 RED. The flowers are of a chestnut-red color, which appears as a ribbon around the center while the points of the petals are tipped yellow. Grows to a height of 6 feet. **Pkt., 10c.**

770 STELLA. Height, 3 to 4 feet. Flowers star-shaped, of brightest golden yellow, with dark centers. They are suitable for cutting. **Pkt., 10c; ¼ oz., 25c.**

Schizanthus

Sweet Peas

Sweet Peas are among the seeds to be sown very early in the spring. They should go into the ground as soon as the soil can be worked, and should be planted six inches deep, being covered at first with only two inches of soil, the trench being filled as the plants grow. One ounce sows 35 to 40 feet in a row. It is best to soak the seeds for several hours before they are planted. If this plan of planting early is followed, and Sweet Peas are kept mulched or else watered abundantly, they will generally give a fine crop of blooms.

Early Flowering Spencer Varieties

While these are especially adapted for forcing under glass for winter and early spring blooming, they are also valuable for outdoor culture, coming into bloom five or six weeks earlier than the regular Spencer type, and if the flowers are kept cut, they will continue to bloom for a long time.

771 ANNIE LAURIE. Pure rose-pink.
772 BLUE BONNET. Clear deep blue.
773 EXPOSITION PINK. Rich pink.
774 HOPE. Pure white.
775 LADY GAY. Soft shrimp-pink.
776 MAJESTIC ROSE. Rose-pink; long stems.
777 LAVANDA. Clear lavender.
778 RED BIRD. Bright crimson-red.
779 VALENCIA. Sunproof-orange; long stems.
780 SHIRLEY TEMPLE. Soft pink, large dainty flowers on long stems.

Price any of the above: Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., $1.50.

781 EARLY FLOWERING MIXED. A splendid mixture containing all colors. **Pkt., 10c; oz., 35c; ¼ lb., $1.25.**

Summer Flowering Spencer

782 AVALANCHE. Frilled white flowers.
783 BEAUTY. Blush-pink.
784 COMMANDER GODSALL. Deep violet-blue.
785 HEAVENLY BLUE. Delphinium-blue.
786 HUNTSMAN. A sun-proof scarlet.
787 IVORY PICTURE. Ivory-cream.
788 PINKIE. Clear deep pink.
789 PIRATE GOLD. Golden orange.

Price any of the above: Pkt., 10c; oz., 25c; ¼ lb., 75c.

Eight Summer Flowering Sweet Peas

2790 Contains 1 packet each of the eight varieties offered above. Value, 80c, for 60c.

790 BEST SPENCER MIXED. Comprises the best varieties in all beautiful shades and colors and much superior to that offered indiscriminately as coming from growers. **Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., $1.50.**

HARDY SWEET PEAS. See Lathyrus latifolius, page 48.

Tagetes - Pigmy Marigold

792 SIGNATA PUMILA LITTLE GIANT. We are proud to offer Little Giant as the highest development yet attained of this pretty little Marigold, with slender fernlike foliage and an abundance of dainty, single, golden orange flowers on plants 4 to 6 inches high, with spread of 8 to 10 inches. **Pkt., 15c.**

793 GOLDEN GEM. (Signata Pumila). A much improved dwarf compact variety, 6 to 8 inches high, throwing the flower well above the delicate, fernlike foliage, densely covered with bright yellow flowers, striped brown. **Pkt., 10c; ⅛ oz., 30c; ¼ oz., 50c.**

Tithonia Speciosa

Tithonia

The Golden Flower of the Incas or Mexican Sunflower

794 **SPECIOSA.** Tithonia is a rare plant coming from Mexico, the home of the Dahlia. History tells us that Tithonias were found growing in Peru as early as 1531, and were later found in Mexico. It is remarkable that a flower of such striking beauty should have been lost to cultivation. We now offer it as a novelty, which it is to the American gardener. The flowers are large and remind one of the immense single Zinnia. The color is a dazzling orange-scarlet. An annual of rapid growth and easy culture, throwing up from the roots many stout woody stems with large foliage. It forms a shrubby plant and flowers for a long period. The flowers are three to four inches across and can be cut with two to three-foot stems. They last a long time in water. From seed sown in the frame in March, plants begin to bloom in August; sown outdoors in May, plants bloom in September and continue in either case until frost. Tithonia is especially desirable for planting among shrubs, adding much color; or can be planted in the background of either the hardy or the annual border. Planted two feet apart in rows, it forms a striking hedge, and indeed a most effective screcn. Prefers a poor dry soil. **Pkt., 20c.**

FIREBALL. See Novelty page 25.

Torenia

A free-blooming annual, growing 10 to 12 inches tall. Makes a fine display in borders, pots, or window boxes.

795 **FOURNIERI.** Velvety blue with dark blue blotches and yellow throat. **Pkt., 15c; 1/16 oz., 50c.**

Tripteris

796 **HYOSERIOIDES.** A distinct and attractive plant from South Africa. Literally covered with showy, dainty, daisy-like, light cadmium-yellow flower with dark brown discs. Flowers 1½ to 2 inches across, excellent for cutting and very showy. Plants 2 to 2½ feet. **Pkt., 20c; 3 for 50c.**

Ursinia

Emerging from their South African solitudes, the Ursinias have been rapidly making for themselves a place in horticulture. The dwarf plants are well furnished with finely cut foliage, above which rise brilliant orange-colored daisy-like flowers, measuring over 2 inches in diameter, each with a deep purple or red zone around the center. The flowers are borne on long wiry stems, and make an excellent decoration in small vases. Many South African introductions close early in the afternoon, but the Ursinia will be found to remain open until nearly dark. When grown in the garden, it should be given a sunny position, and strong plants raised in pots from seed sown indoors during the latter part of March or early April and transferred to the open ground in May, will produce a very effective display. For flowering under glass, January is the best time for sowing.

797 **ANETHOIDES, "SUNSTAR."** It may be best described as a vivid golden orange, the beauty of which is enhanced by a zone of bright chestnut-red in the center of the flower. **Pkt., 25c.**

"Surprise Garden" Flower Seed

This comprises a mixture of annuals, biennials and perennials and consists of sorts growing at moderate heights. No vines, trailers, or very tall growing plants are used in it.

821 **Large pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., $2.50.**

Viscaria

A very beautiful annual and easy to grow. Very free-flowering, producing throughout the entire summer its showy single flowers in red, white and blue shades. For bloom outdoors, seed may be sown in the open during March, April or May, or in September, for early flowering. Height 12 to 18 inches.

816 **ROSE BEAUTY.** Bright deep rose. **Pkt., 20c; 3 for 50c.**

817 **BLUE PEARL.** Free-flowering, tidy and erect. Pure lavender-blue, distinct from all other blue Viscarias, without the eye. **Pkt., 20c.**

818 **BLUE BOUQUET.** The flowers are larger than those of the ordinary Viscaria and of a beautiful shade of blue. **Pkt., 20c.**

819 **OCULATA, TOM THUMB MIXED.** Special mixture of red, white and blue shades. Height, 1 ft. **Pkt., 15c.**

Verbena

NEW GIANT HYBRIDS

A magnificent new strain of Verbenas, of robust, compact habit and free-blooming. The trusses are immense, the individual florets measuring an inch in diameter. These Verbenas are fixed and come true from seed.

Seed can be started in the house and transplanted to the garden when the weather is warm, or sown in the open ground, thinned and transplanted. Verbenas from seed are much more thrifty and less liable to rust than from cuttings. Annual, 1 foot high.

798 **APPLE BLOSSOM.** The florets of this Verbena are almost white, shading to a delicate cameo-pink toward the edge of the petals. **Pkt., 15c.**

799 **SPECTRUM RED.** An intense bright red having no eye. This variety is a brighter shade than any other Verbena yet introduced. The individual florets are 1¼ inches in diameter. **Pkt., 15c.**

800 **BEAUTY OF OXFORD HYBRID.** A beautiful Giant Hybrid, raised from a cross between Verbena Luminosa and Beauty of Oxford. While following closely the color of Beauty of Oxford, it also inherits a touch of salmon-pink from Luminosa which gives a lovely softening effect. The color shades from clear rose-pink to rose-red, making this the brightest rose of Verbena ever produced from seed. The individual florets measure over one inch in diameter and easily cover a silver half-dollar. The foliage is a dark cress-green. **Pkt., 15c.**

801 **LAVENDER GLORY.** A true lavender with a creamy white eye. Large florets; sweetly fragrant. **Pkt., 15c; 1/16 oz., 50c.**

802 **ROYALE.** This is a Verbena of enormous size, the individual florets measuring over an inch and a quarter in diameter. The color of this new Verbena is a rich, deep, royal blue with a large creamy yellow eye. **Pkt., 15c; 1/16 oz., 35c.**

803 **ETNA.** Large trusses of intense geranium-red with a small creamy yellow eye. The individual florets are over one inch in diameter. **Pkt., 15c; ⅛ oz., 45c.**

804 **LUMINOSA.** Flame-pink, shading to salmon. **Pkt., 15c; ⅛ oz., 45c.**

805 **SALMON-PINK.** Beautiful salmon-pink flowers. **Pkt., 15c; ⅛ oz., 40c.**

806 **WHITE.** **Pkt., 15c; ⅛ oz., 45c.**

807 **MAMMOTH MIXED.** Comprising a wonderful range of charming colors in every conceivable shade. **Pkt., 10c; ⅛ oz., 30c; ¼ oz., 50c.**

COLLECTION
New Giant Flowering Verbenas

2807 Contains one packet each of Royal, Etna, Salmon-Pink, and White. **(Value 60c) for 45c.**

New Dwarf Compact Verbenas

This group is very neat and compact, forming a perfectly symmetrical plant about 6 to 10 inches high and 8 to 12 inches across. They are continuous bloomers, particularly adapted for bedding, borders and small gardens.

808 **DANNEBROG.** Intense scarlet, large white eye. **Pkt., 20c.**

809 **DWARF COMPACT MIXED.** A splendid mixture including the above varieties. **Pkt., 20c.**

Verbena Venosa - Hardy Garden Verbena

®810 **DELICATE LILAC.** Forms erect plant, 12 inches high with delicate lavender flowers produced in such masses as to completely hide the foliage. It is perfectly hardy and does well in beds, borders and may also be used in the rock garden. A perennial treated as an annual, blooming the first year from seed; if sown early will then bloom until frost. **Pkt., 20c.**

Venidium

811 **FASTUOSUM HYBRIDS.** A magnificent late flowering annual from South Africa. Will produce a glorious display of large daisy-like flowers in shades of apricot, creamy white, pure white, salmon, canary-yellow, golden yellow and orange. Will withstand extreme heat, which makes this plant very useful in the garden. **Pkt., 20c.**

Vinca - Periwinkle

Valuable for bedding, seed should be sown early. Annual.

812 **ROSE.**
813 **WHITE** with crimson eye.
814 **WHITE.**
815 **MIXED.**

Any of the above. **Pkt., 10c; ¼ oz., 50c.**

VIOLA. See Perennial page 51.

Wallflower

820 **EARLY WONDER MIXED.** A recent novelty from Europe. If planted in early spring will be in full bloom by early summer. The flowers are equal to the perennial in size and every respect. It was developed by crossing the Perennnial Double with the Early Annual and should thrive and bloom profusely in our warm and dry summer. **Pkt., 15c.**

Xeranthemum - Everlasting Flower

822 **DOUBLE MIXED.** Bright and pretty "Everlasting" with silvery foliage and silky flowers in pink, white and purple. **Pkt., 10c.**

Zinnias for Every Purpose

Few, if any, annuals have greater utility value than that of the Zinnia. Many distinct types have been developed, some bearing flowers of enormous size and others producing miniature double blooms in profusion. For early flowers sow seed indoors in March and transplant seedlings to the garden in early May, or, if preferred, sow seed in open ground in April. Space the large flowering and taller sorts from 1½ to 2 feet apart; Pompon or Lilliput types 8 to 12 inches apart.

Giant Dahlia-Flowered Zinnias

The most outstanding of all Zinnias because of the wonderful range of rich colors. The flowers are immense, often measuring 5 to 6 inches across, and 3 to 4 inches in depth. They are borne profusely from late summer until frost. The bushes are 2½ to 3 feet tall, of well-rounded form.

823 **CANARY BIRD.** A delicate shade of primrose; very large and holds its color well until out of bloom. **Pkt., 15c.**

824 **CRIMSON MONARCH.** By far the largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. **Pkt., 15c.**

825 **DREAM.** A fine, deep lavender, turning to purple (Mallow Purple), a new, desirable shade in Zinnias. **Pkt., 15c.**

826 **EXQUISITE.** By far the most pleasing of our collection. Truly **Dahlia** flowered as regards form and size. Color, light rose with center a deep rose (Tyrian rose). **Pkt., 15c.**

827 **GOLDEN DAWN.** A beautiful golden yellow of immense size and good form. Very attractive. **Pkt., 15c.**

828 **GOLDEN STATE.** A very rich orange-yellow (cadmium). Yellow in the bud, turning to an attractive orange when in full bloom. **Pkt., 15c.**

829 **ILLUMINATION.** Similar to Exquisite, but a striking shade of deep rose. **Pkt., 15c.**

830 **LEMON BEAUTY.** This is next to Crimson Monarch in size and form. It may be described as a golden-yellow on brown. Decidedly a pastel shade and should be in every collection. **Pkt., 15c.**

831 **METEOR.** A rich, glowing deep red (spinel red) and the darkest of all the red shades. Fine form, with good depth of petal. Very large and more floriferous than other reds. **Pkt., 15c.**

832 **OLD ROSE.** This is adequately described by its name, as it is of the real old-rose shade; it is large and for charm and beauty we consider it ranks next to Exquisite. **Pkt., 15c.**

Dahlia-Flowered Zinnia

833 **ORIOLE.** We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages, but at all times worthy of the beautiful bird for which it is named. **Pkt., 15c.**

834 **POLAR BEAR.** A very large pure white; the best white yet seen in Zinnias. True Dahlia form. **Pkt., 15c.**

835 **PURPLE PRINCE.** A fine deep purple (Rhodanthe purple, large and well-formed. **Pkt., 15c.**

836 **SCARLET FLAME.** A large beautiful, bright scarlet, with a delightful blending of orange throughout the petal. This is not a bicolor. **Pkt., 15c.**

837 **YOUTH.** A beautiful soft rose, valuable for forcing and a good shipper, having better lasting qualities than any other variety offered. **Pkt., 15c.**

Any of the above Dahlia-Flowered Zinnias, ⅛ oz., 35c; ¼ oz., 60c; oz., $1.75.

838 **SPECIAL GOLD MEDAL MIXTURE.** A well-blended mixture containing all the above novelties. **Pkt., 15c; ⅛ oz., 25c; ¼ oz., 40c; oz., $1.25.**

California Giant Zinnia

SPECIAL COLLECTIONS

Giant Dahlia-Flowered Zinnias

2838 Contains 1 packet each of the above 15 separate named varieties. (Value $2.25) for **$1.50.**

3838 Contains 1 packet each of **Crimson Monarch, Dream, Illumination, Golden Dawn, Oriole.** (Value 75c) for **50c.**

California Giant Zinnias

The strain has the same robust habit as the Dahlia-Flowered. When the flowers are in full bloom, they reach enormous size, but their flatness gives them a most graceful appearance.

839 **BRIGHTNESS.** Bright, deep pink.

840 **DAFFODIL.** Canary-yellow.

841 **GRENADIER.** Bright dark red.

842 **LAVENDER GEM.** Deep lavender turning to purple.

843 **LEMON QUEEN.** Golden lemon.

844 **MISS WILLMOTT.** Soft pink.

845 **ORANGE KING.** Orange-scarlet.

846 **PURITY.** White.

847 **SALMON QUEEN.** Salmon-rose.

848 **VIOLET QUEEN.** Deep purple.

PRICE, any of the above: Pkt., 10c; ⅛ oz., 30c; ¼ oz., 50c; oz., $1.50.

849 **FINEST MIXED.** A mixture of the above varieties. **Pkt., 10c; ⅛ oz., 20c; ¼ oz., 35c; oz., $1.00.**

Zinnia, Scabiosa-Flowered

Scabiosa-Flowered Zinnia

863 **MIXED.** An entirely distinct and attractive strain of Zinnia of exquisite form, reminding one of Double-Crested Cosmos. The flowers are of medium size and each bears a collar of petals surmounted by a full double crest of the same tone of color. The plants are very free-flowering and range in color from pale rose to crimson and scarlet with orange, golden and purple shades. Being about 2½ feet in height, this strain makes a remarkably pleasing effect when used for bedding purposes. **Pkt., 15c; ⅛ oz., 30c.**

Zinnia, Crown o' Gold

864 **MIXED.** This new Zinnia derives its name and distinction from the fact that each petal of the flower is overlaid with a deep golden-yellow at the base, while carrying out the individual flower color at the tip. The effect is a very pleasing two-tone color harmony. The color range comprises the more popular shades, including old rose, cream, yellow, carmine, and burnished red; the latter a new shade in Zinnias. **Pkt., 15c.**

865 **DESERT GOLD.** Several years ago we offered the fascinating new Zinnia, Crown o' Gold, in mixture. The yellow and gold shades in this mixture were immediately proclaimed the most attractive and sought after as separate colors. We are very happy now to offer these shades as Desert Gold, a variety containing the light and deep hues of gold, each petal overlaid at the base with a deeper golden yellow, giving a charming bicolor combination. Those who appreciage the finest in Zinnias will welcome Desert Gold. **Pkt., 15c.**

Early Wonder - A New Dwarf Race

Blooms very early and grows 12 to 15 inches tall. Medium sized flowers borne on long stems, starting from the ground, with no laterals and few leaves. Fine for cutting.

866 **FIERY SALMON.** Cerise-pink. **Pkt., 15c; ⅛ oz., 60c; ¼ oz., $1.00.**

867 **GYPSY.** This variety is a deep burnished orange, a very rich most delightful shade. **Pkt., 15c.**

868 **CURLED AND CRESTED.** Twisted and curled petals which make very effective flowers. **Pkt., 10c; ¼ oz., 25c.**

Zinnia Linearis

869 Linearis is a dwarf early flowering form somewhat comparable to Zinnia Haageana. The single flowers are deep golden orange in color, with a delicate light yellow stripe which contrasts boldly with the dark center—a combination which is most attractive. It is early flowering, and the plant reaches a height of 8 to 10 inches with a spread of as much as 2 feet. **Pkt., 15c.**

870 **TOM THUMB MIXTURE.** Tom Thumb is without exception the dwarfest Zinnia known. The plants are rounded and compact, 4 to 6 inches high, literally covered with well-formed flowers of the Lilliput type. The color range includes red, orange, yellow, pink, rose, and other pastel shades. During the hot dry summer months this is the ideal border plant and is also well adapted for window box and pot work. **Pkt., 15c.**

871 **FANTASY MIXED.** New Zinnias are always welcomed by home growers and florists alike. While the giant-flowered varieties are still popular, the trend of late years has been toward the smaller flowered, more graceful strains. This new Fantasy Mixture meets this demand in all details. The rounded flowers are composed of a mass of shaggy ray-like petals which give a delicate and refined appearance to the medium-sized double flowers, large enough to satisfy the desire for mass of color, yet small enough to lend themselves gracefully to flower arrangement. The color range includes the brightest shades of reds and orange, as well as the popular pastel pinks and cream. **Pkt., 15c; ⅛ oz., 30c.**

872 **MEXICANA, GYPSY GIRL.** Orange and maroon, 9 inches in height. Chocolate-maroon flowers with a golden yellow band. **Pkt., 15c.**

873 **MEXICANA HYBRIDS.** Single and semi-double flowers somewhat like those of the French Marigold, in shades of yellow, orange, crimson and brown. Height, 18 inches. **Pkt., 10c; ⅛ oz., 35c.**

NAVAJO ZINNIAS. See Novelty page 25.

Mexican Zinnias

Zinnia, Lilliput

Dwarf Zinnias for Beds and Borders

Zinnia, Lilliput

This type of Zinnia forms a bush about 12 to 15 inches high and is covered with small, very double flowers in profusion. Excellent for cutting.

850 **CANARY YELLOW.**
851 **CRIMSON GEM.**
852 **FLESH.**
853 **GOLDEN GEM.**
854 **LILAC GEM.**
855 **PURPLE GEM.**
856 **ROSEBUD.**
857 **SALMON-ROSE.**
858 **SCARLET GEM. (Red Riding Hood).**
859 **VALENCIA.** Burnt orange.
860 **WHITE GEM.**

PRICE, any of the above Lilliput Zinnias: Pkt., 10c; ⅛ oz., 25c; ¼ oz., 40c; oz., $1.20.

861 **FINEST MIXED.** A mixture of the above colors. **¼ oz., 35c; oz., $1.00; pkt., 10c.**

862 **PASTEL MIXTURE.** Composed solely of delicate colors not found in the ordinary Lilliput Mixture. It comprises soft shades of apricot, peach, creamy yellow, shell-pink, delicate salmon, light rose and orchid. **Pkt., 15c; ⅛ oz., 25c.**

Our Special Offer of Lilliput Zinnias

2861 Contains a packet each of Canary-Yellow, Scarlet Gem, Salmon-Rose, Purple and White Gem. (Value 50c) for **35c.**

874 **ZINNIA FANTASY STARDUST.** Having the same shaggy petals, medium size flower as the mixture. A delicate graceful bloom. **Pkt., 15c.**

Dwarf Double Pumila Zinnia

This strain is very early flowering, coming into bloom about 45 days after planting. Flowers are rounded, 2½ to 3 inches in diameter, on plants 12 to 18 inches in height.

875 **SPUN GOLD.** A delicate pastel shade of Buttercup-yellow. **Pkt., 15c.**

876 **PUMILA MIXED.** Comprising all shades. **Pkt., 10c; ¼ oz., 25c.**

Seeds of Hardy Perennial Flowers and Rock Garden Plants

There can be no greater joy than the planting of your own Perennial or Rock Garden, and certainly nothing more fascinating than actually growing from seed the plants and varieties desired. Perennials are those plants that go on living and increasing for a number of years, the stems dying down each season and coming again from the roots each spring. Most varieties are easily raised from seed sown during the late spring and early summer in frames or seed beds and transplanted to their permanent quarters in late summer or early autumn. If the seed be planted in August, they should be wintered over in the cold frame and transplanted to the border or rockery the following spring.

We recommend sowing perennial seeds in the spring. Seed germinates better, seedlings have an opportunity to develop into sturdy plants by fall, which permits them to winter over more successfully. The majority of these perennials bloom the second year from seed, although some, like Coreopsis and Gaillardia, if sown early, bloom the first year. Perennials should be placed in clumps of three or five and left undisturbed for several years.

All varieties marked with a ® throughout the list are especially suitable for the rockery.

Achillea - Milfoil or Yarrow

877 **PTARMICA, THE PEARL.** A free blooming hardy perennial, bearing a profusion of small, double, white flowers on plants 2 feet tall, during July and August. Easily grown from seed, flowering the first season, if sown early. **Pkt., 15c; 1/16 oz., 50c.**

Aconitum - Monkshood

Bold spikes of hood-shaped flowers, valuable for cutting; very effective in flower borders and shrubberies, thriving anywhere. Hardy perennial.

878 **NAPELLUS.** 2½ feet. July, August. Fine, rich blue flowers. **Pkt., 10c; ⅛ oz., 45c; ¼ oz., 75c.**

Adonis - Pheasant's Eye

®879 **VERNALIS (Spring Adonis).** A very useful hardy perennial for the rock garden or border. Should be planted in a warm corner among Arabis, Aubrietias, Crocuses and Hepaticas. Grows 8 to 12 inches tall, bearing single, yellow, buttercup-like flowers during late March and April. Will grow in sun or half shade. Seed germinates slowly. **Pkt., 10c; 1/16 oz., 35c.**

Agrostemma - Mullein Pink

880 **CORONARIA.** Silvery foliage and bright crimson flowers. free-flowering hardy perennial of easy culture; blooms the first season; fine for cutting; 2½ to 3 feet. June to August. **Pkt., 10c.**

AMPELOPSIS VEITCHI (Boston Ivy). See page 52.

Alyssum - Rock Madwort

®881 **MONTANUM.** Trailing habit. Silvery leaves and fragrant yellow flowers. Height 4 inches. **Pkt., 20c.**

®882 **SAXATILE COMPACTUM** (Basket of Gold). Showy, bright yellow flowers, hardy perennials; excellent for rock work; 1 foot. **Pkt., 10c; ¼ oz., 25c.**

®883 **SAXATILE COMPACTUM, SILVER QUEEN.** Broad masses of pale lemon flowers in early spring. Useful in the border as well as in the dry wall or rock garden. **Pkt., 20c; 3 pkts., 50c.**

ANNUAL SWEET ALYSSUM. See page 26.

Anchusa

884 **ITALICA "FELTHAM PRIDE."** Upright habit, having flowers of the brightest blue. **Pkt., 25c.**

®885 **MYOSOTIDIFLORA.** A Russian species, bearing in April a profusion of pretty pale blue, forget-me-not-like flowers. Height 1 foot. **Pkt., 25c.**

Anthemis - Hardy Marguerite

886 **KELWAYI.** A most satisfactory hardy perennial, bearing all summer daisy-like, golden yellow blossoms; excellent for cutting. 2 feet. **Pkt., 10c; ⅛ oz., 25c.**

Columbine, Dobbie's Imperial Hybrids

Aquilegia - Columbine

This graceful Hardy Perennial is an ideal plant for partially shaded borders. As a cut flower it is noted for its beauty of form and richness of color.

CULTURE. Columbines, especially the long-spurred hybrids, thrive in a light soil, loose and fibrous, provided by adding peat and well-decayed manure. When planted in partial shade, the flowers develop better, grow larger and last longer. Easily raised from seed.

890 **DOBBIE'S IMPERIAL HYBRIDS.** These new long-spurred Columbines are unequaled for their range of colors and sturdiness. They have received a great deal of attention abroad and are considered in England to be one of the best mixtures offered today. **Pkt., 25c.**

891 **MRS. SCOTT ELLIOTT'S STRAIN OF LONG-SPURRED HYBRIDS.** A renowned English strain, which enjoys a world's reputation for large size flowers with long spurs. The colors range from pure white through tones of pink, blue, yellow and red. **Pkt., 15c; 1/16 oz., 50c; ⅛ oz., 90c.**

892 **EMPEROR.** This new giant race is a selection from the very finest strains of long-spurred Columbines in England, and far surpasses them as ornamental plants for the border, through its greater height, which averages 4 to 5 feet. The flowers are exceptionally fine and possess a really good range of colors. **Pkt., 25c.**

893 **CRIMSON STAR.** The novelty we here offer bears flowers of brilliant dark crimson, which, being borne profusely on the plant forms a most attractive subject for the border. This shade is a welcome addition to the long-spurred class. The raiser claims that it will come reasonably true to color from seed. **Pkt., 25c.**

894 **MRS. NICHOLS.** A much improved strain, developed by an English specialist. The flowers are of a very bold type, color a rich shade of blue. **Pkt., 25c.**

895 **COERULEA.** (Rocky Mountain Columbine). One of the most beautiful of our native American flowers. Sepals deep blue; petals white. Height, 1 to 2 feet. April to July. **Pkt., 15c.**

896 **ROSE QUEEN.** Long-spurred pink flowers with white center and yellow anthers. Height, 2½ feet. **Pkt., 15c.**

897 **SINGLE FLOWERING.** All colors mixed. **Pkt., 10c; ¼ oz., 25c.**

898 **CLEMATIS FLOWERED.** For description, see Novelty page 25. **Pkt., 50c.**

899 **LONGISSIMA.** For description see Novelty page 25. **Pkt., 40c.**

Anemone - Windflower

887 **MONARCH DOUBLE MIXED.** A new strain of double Anemone containing the essential perfections of length and strength of stem, size of flowers and a full range of bright vivid colors, as scarlet, rose and blue. **Pkt., 20c.**

888 **ST. BRIGID.** A very pleasing perennial, producing large, Irish poppy flowers; few plants compare with them in beauty; fine for bouquets. **Pkt., 10c; ¼ oz., 75c.**

®889 **PULSATILLA** (Pasque Flower). Grows from 9 to 12 inches high and produces violet or purple flowers during April and May. An interesting plant for the rockery or well-drained border. Plant in full sun, 6 to 8 inches apart. **Pkt., 15c.**

Arabis - Rock Cress

®900 **ALPINA.** A hardy perennial and one of the earliest and prettiest spring flowers. The spreading tufts are covered with a sheet of pure white flowers as soon as the snow disappears. Unequalled for rockeries or edging; withstands the drought and is always neat; 6 inches. **Pkt., 10c; ¼ oz., 25c; oz., 75c.**

®901 **SNOW CAP.** Similar in every way to the above but having improved habit with larger flowers. **Pkt., 15c.**

®902 **ROSEA.** Similar in habit to the above. The flowers are a delicate pale pink. A rare rock plant. **Pkt., 25c.**

Arenaria - Sandwort

These little Alpine plants require a well-drained, sandy soil, not too rich, and prefer a sunny location in the rock garden or rock wall. Easily raised from seed.

®903 **MONTANA.** Growing in close tufts about 4 inches high, profusely covered with small silvery white flowers quite early in May. **Pkt., 20c.**

Armeria - Sea Pink or Thrift

Attractive dwarf plants that are invaluable for the rock garden, thriving in sunny places and succeeding in any soil. Forms evergreen tufts of bright green foliage from which flowers appear in dense heads on stiff, wiry stems, from 3 to 12 inches high. May be easily raised from seed.

®904 **CEPHALOTES, BEE'S RUBY.** Brilliant pink with long stems. The finest Armeria for the border and for cutting. **Pkt., 15c.**

®905 **LAUCHEANA.** Bright rosy red, 3 to 6 inches, May to June. **Pkt., 15c.**

Anemone Pulsatilla

Aubrietia - False Wall Cress

Lovely dwarf growing perennial plant that should be enjoyed in more gardens. Their use is not confined to the rock garden but when massed on dry walls or along the edge of sunny borders with white Arabis and yellow Alyssum will give rich spreads of color. Moreover, they are easily raised from seed, blooming the second year. The plants should be well clipped over after flowering so that they will make a fine growth for next year's blossoming.

®911 **EYRI.** Large flowered dark violet-purple. Thrives in stony places or any garden soil. Full sun. Late April and May. **Pkt., 15c.**

®912 **LEICHTLINI.** Leaves grayish, usually evergreen. Color carmine-rose. Sun or half shade. Late April and May. **Pkt., 20c; 3 pkts., 50c.**

®913 **LARGE FLOWERING HYBRIDS.** Exceptionally fine strain, including a wide range of many unusual colors, which cannot be fixed and offered separately. **Pkt., 15c; 1/16 oz., 75c.**

Aster - Michaelmas Daisy

General List of Asters on Page 28.

®906 **ALPINUS GOLIATH.** Indispensable for the rockery or edge of hardy borders; 6 to 10 inches high and bears showy bluish-purple flowers in May and June. Plant in full sun, 6 to 8 inches apart. **Pkt., 20c; 3 pkts., 50c.**

®907 **ALPINUS MIXED.** Similar in habit to the above. Large lavender, blue and white flowers. **Pkt., 15c; ⅛ oz., 65c.**

908 **FARRERI.** The color is a soft tone of violet-mauve, with large golden orange disk. The flowers are from 2 to 3 inches across. Blooms in June and July. **Pkt., 20c; 3 pkts., 50c.**

®909 **SUBCOERULEUS.** (Florist's Delight). Forms a dense tuft of leaves from which arise many leafless stems 12 inches in height, bearing in June and July azure-blue daisy-like flowers 3 inches in diameter, with golden centers. **Pkt., 20c.**

910 **LARGE FLOWERING.** Mixed. Single fall flowering hardy Asters thriving in any good garden soil. If sown early they will flower the first season. **Pkt., 15c; ⅛ oz., 60c.**

The varieties marked ® are especially suitable for the rock garden.

Aster Alpinus, Goliath

Campanula Carpatica, Blue

Bellis Perennis - English Daisy

A well-known dwarf-growing plant which bears massive and very double aster-like flowers. It is very useful for borders or growing for cut flowers. Plants are about 6 inches high and bear in greatest profusion.

914 **GIANT RED.** Pkt., 15c; ⅛ oz., 75c.
915 **GIANT ROSE.** Pkt., 15c; ⅛ oz., 75c.
916 **GIANT WHITE.** Pkt., 15c; ⅛ oz., 75c.

917 **DOUBLE MIXED.** Large, double flowers, various shades, pink, red, white and other colors. **Pkt., 15c; ⅛ oz., 60c.**

Campanula

In this great family of plants are some of the loveliest and most enchanting of rock plants and alpines, as well as a great number of beautiful and useful plants for the open borders and for naturalizing in half-shaded wild gardens. Easily raised from seed and having the advantage of flowering late and giving blooms in the summer time when flowers in the rock garden or perennial border are scarce.

Campanula - Bellflower

The following Campanulas are all hardy perennials and will succeed in ordinary rich soil.

®918 **CARPATICA, BLUE** (Carpathian Harebell). Free-flowering hardy perennial plants, continuing in bloom the whole season; color clear blue. Good for edging and rock gardens. Will bloom the first season if sown early. Height, 6 inches. **Pkt., 10c; ⅛ oz., 30c; ¼ oz., 50c.**

®919 **CARPATICA ALBA.** The white-flowered form of the above. **Pkt., 10c; ⅛ oz., 30c; ¼ oz., 50c.**

920 **PERSICIFOLIA, TELHAM BEAUTY** (Peach Bells). Immense bell-shaped flowers of a pale china blue, silvery shading. Height 2 feet. **Pkt., 25c.**

921 **PYRAMIDALIS, BLUE** (Chimney Bellflower). Produces spikes 4 feet long covered with blue, star-shaped flowers during the entire summer. **Pkt., 10c.**

®922 **ROTUNDIFOLIA OLYMPICA.** It is an alpine and comes from the Olympian Mountains of the State of Washington. The flower is of a beautiful deep lavender-blue, about 1 inch across and the same in length, borne on a plant of compact habit about 8 inches in height. Blossoms freely through the summer and fall. **Pkt., 25c.**

Campanula Medium

SINGLE CANTERBURY BELLS

These single Canterbury Bells are highly valued by many gardeners as they will give an exceedingly fine display in the garden and will last quite some time as cut flowers. Cover during the winter with evergreen boughs to protect against severe freezing.

923 Single, Dark Blue .....
924 —Light Blue .....
925 —Rose .....
926 —White .....
927 —Single Mixed Colors .
} **Any color: Pkt. 10c; ¼ oz., 25c.**

Campanula Calycanthema

Cup-and-Saucer Canterbury Bells

928 **SPECIAL MIXTURES.** Pkt., 10c; ⅛ oz., 35c.

Canterbury Bells

929 **DWARF BEDDING SINGLE MIXED.** A new dwarf compact type only about 20 inches in height. Forming bushes over 3 feet in circumference, the plants are wonderfully floriferous, often bearing 100 to 150 flowers, and will make a splendid subject for spring bedding. **Pkt 20c.**

Hardy Border Carnations

930 **GRENADIN MIXED.** Dwarf, compact plants with a great profusion of double flowers in various colors. Early flowering and invaluable for cutting. Will bloom first year if seed is sown early. 1 ft. **Pkt., 15c.**

Centaurea

931 **MONTANA** (Perennial Cornflower). Hardy perennial variety, grows 2 feet high, bearing large violet-blue flowers from July to September. **Pkt., 10c; ⅛ oz., 25c.**

Cerastium - Snow-in-Summer

These blanketing hardy perennial plants are suitable for growing over stones and rough banks, also used on rough places in the rock garden or for edging of borders.

®932 **TOMENTOSUM.** Narrow, silvery foliage with white flowers, suitable for planting in dry sunny places. 3 to 6 inches. June. **Pkt., 10c; ⅛ oz., 35c; ¼ oz., 55c.**

Cheiranthus

Very pretty dwarf hardy biennial plants, usually handled as annuals, flowering freely throughout the summer from seed sown in spring; for early spring flowering, sow in late summer. Splendid for rockery.

®933 **ALLIONI** (Siberian Wallflower). About 12 inches high with heads of brilliant orange flowers. **Pkt., 10c; ¼ oz., 25c.**

Coreopsis - Tickseed

Will flower the first year if sown very early.

940 **MAYFIELD GIANTS.** Deep golden yellow. This variety will produce a tall and vigorous plant, having long and firm stems and large individual blossoms. Excellent for cutting. Blooms freely all summer. **Pkt., 15c; ⅛ oz., 25c.**

941 **LANCEOLATA GRANDIFLORA.** Bright yellow Cosmos-shaped flowers. **Pkt., 10c; ¼ oz., 25c.**

942 **SUNBURST.** This new double form is just as easy to grow as the single varieties offered above and the extra petalage adds a further charm to the flowers. **Pkt., 20c.**

Cerastium Tomentosum

Chrysanthemum - New Types

®934 **MAWI.** An ideal plant for the border or rockery. Height about 1 foot. Flowers 2 inches across and of a rich pink color. Silvery foliage and perfectly hardy. **Pkt., 20c.**

935 **CASCADE.** A new race of Perennial Japanese Chrysanthemums, bearing large clusters of small single flowers in shades of scarlet, bronze, orange, yellow and white. Beautiful when grown in masses affording a splendid colorful garden effect long to be remembered. March and April sown seed in the open ground will bloom in September and October. An admirable greenhouse or potted plant, falling as it does in cascades of beautiful flowers. **Pkt., 15c.**

Chrysanthemum - Shasta Daisy

936 **NEW GIANT DOUBLE WHITE.** (Diener Strain). This strain includes an assortment of various types of double flowers ranging from the most fully double fringed petaled sorts through semi-doubles to a type which, though single, forms unusual and beautifully shaped flowers with laciniated, curled and quilled petals. The flowers are all large and carried on long wiry stems. **Pkt., 40c.**

937 **THE PRINCE.** A Shasta Daisy producing very large pure white flowers, 5 inches in diameter, born on long stiff stalks, 18 inches and more in length, of which the vigorous plant throws up a large number. Blooming takes place in about mid-season and it is no doubt the best variety for cutting yet produced. **Pkt., 15c; ⅛ oz., 35c.**

938 **ALASKA.** A splendid hardy perennial variety with flowers rarely less than 5 inches across, of the purest glistening white, with broad overlapping petals, and borne on long strong stems; a beautiful cut flower, remaining in good condition a week or more. **Pkt., 10c; ⅛ oz., 25c.**

Korean 'Mums

From Seed

939 **KOREAN HYBRIDS.** Seed saved from one of the best collections representing a wonderful range of colors. Large flowering single and semi-double flowers. Will bloom the first year from seed if sown early. **Pkt., 35c.**

Delphinium, Blackmore & Langdon's Strain

Delphinium - Hardy Perennial Larkspur

The Delphinium, or Hardy Larkspur, is one of the most valuable of all herbaceous plants. It provides many of the light and dark shades of blue colors greatly in demand, but very scarce. Many delightful shades of lavender and mauve are also present in the newest strains, all of which will be found in the choice varieties offered below.

Named Varieties, English Delphiniums

A slight variation in colors must be expected in the flowers produced from seed, but a large per cent of the seedlings will come true. The others, too, will be of good type, and more than likely some new color combinations will be found among them.

943 **A. J. MOIR.** Semi-double, 2¼ inches across. Cornflower-blue, white eye. Height 5 ft. **Pkt., 50c.**

944 **W. B. CRANFIELD.** Gentian-blue and rosy mauve, eye white. Early. **Pkt., 50c.**

945 **ICEBERG.** This is the first white Perennial Delphinium to be introduced, which comes true from seed. Grows 48 inches high. The long spikes are thickly covered with pure white blooms. This variety is particularly beautiful and forms an attractive contrast to the dark and pale varieties. **Pkt., 35c.**

946 **MILLICENT BLACKMORE.** Spike of perfect form, pips very large, blue and mauve, black center. Height, 5 feet, 6 inches. Late. **Pkt., 40c.**

947 **MRS. J. S. COURTAULD.** Sky blue semi-double, faintly touched mauve, eye white, long spike. Vigorous, mildew-free. **Pkt., 40c.**

948 **VIOLET ROBINSON.** Rich violet-blue, moderate-sized white eye, and remarkable for size of flowers, often 3 inches across. Blooms early. Height, 4½ feet. **Pkt., 40c.**

Delphinium Mixtures of Famous English Specialists

949 **BLACKMORE & LANGDON'S STRAIN.** We take great pride in offering this unusually fine mixture which contains nearly all of the newest varieties developed by these famous English Delphinium specialists. Many of their varieties have earned gold medal awards in England. The seed we offer is saved from their best varieties, including their novelties and imported direct from them by us. **Pkt., 35c; 1/16 oz., 90c; ⅛ oz., $1.60.**

950 **WREXHAM HYERIDS, HOLLYHOCK STRAIN.** A fine mixture of all shades of blue, lavender and mauve. Large flowers well placed on long pyramidal spikes. Their sturdy appearance reminds one of the Hollyhock, hence the name. **Pkt., 35c; 1/16 oz., $1.00; ⅛ oz., $1.85.**

951 **CHOICE HYBRIDS.** Mixed. A choice mixture of all shades, ranging in color from pale lavender to indigo-blue. **Pkt., 10c; ⅛ oz., 40c; ¼ oz., 75c.**

V. & R. GIANT DOUBLE PACIFIC HYBRIDS. A new strain of hand-pollinated Delphinium Seed from Vetterle and Reinelt of California. A mildew-resistant strain having large fine spikes with large flowers that remain in good condition over a long period. Shades of lavender, violet and blue. **Pkt., 40c; 1/16 oz., $1.50.**

Loose Spray Delphiniums

(Excellent for Cutting)

952 **BELLADONNA (Cliveden Beauty).** This is the freest and most continuous blooming Hardy Larkspur. The clear turquoise-blue of its flowers is not equalled for delicacy and beauty. **Pkt., 15c; 2 pkts., 25c; ⅛ oz., 60c; ¼ oz , $1.00.**

953 **BLUE GROTTO.** Deep blue; bee royal purple, with a cream center. **Pkt., 20c.**

954 **BELLAMOSUM.** This is a rich, deep blue form of the popular light blue Belladonna, having the same free-blooming and other good qualities. **Pkt., 20c; 3 pkts., 50c; ⅛ oz., 60c; ¼ oz., $1.00.**

955 **CAMBRIDGE BLUE.** It is a rich clear blue, growing about 2 to 3 feet high. Excellent for cutting. **Pkt., 15c; ⅛ oz., 60c.**

956 **CHINESE WHITE.** This variety grows 12 inches tall, bearing elegant graceful spikes set with large white blooms. Flowers freely from June until September. It is fine for beds, borders and cutting. **Pkt., 10c; ¼ oz., 40c.**

DELPHINIUM, ANNUAL. See Larkspur, page 33.

CULTURAL DIRECTIONS. Delphiniums thrive in rich, deeply cultivated soil; however, any soil, even hot and sandy, if well watered and fertilized, will give excellent results.

If the flowering spikes are cut after blooming to within 8 to 10 inches from the soil, fertilized and watered, fresh growth will then be produced, which will give blossoms. Coal ashes strewn over the crown will protect the plants from slugs through the winter and spring, also forming a natural drainage of excess moisture from the crowns.

Digitalis - Foxglove

968 **SHIRLEY STRAIN.** The plants attain a height of 5 to 7 feet, with spikes 3 to 4 feet long carrying flowers of giant size, ranging in color from white to dark rose and handsomely blotched and spotted cream, maroon and chocolate. **Pkt., 15c; ⅛ oz., 25c.**

969 **WHITE.** **Pkt., 10c; ⅛ oz., 25c.**
970 **PURPLE.** **Pkt., 10c; ⅛ oz., 25c.**
971 **ROSE.** **Pkt., 10c; ⅛ oz., 25c.**
972 **MIXED.** **Pkt., 10c; ¼ oz., 40c.**

EDELWEISS. See Leontopodium, page 48.

PERENNIAL GARDENS
By H. S. Ortloff

Following the simple directions in this book insures a perennial garden crowded with bloom, in which the colors make a perfectly blended picture. First come plans, showing how to locate and lay out the garden; then clear directions for preparing the soil, fertilizing, planting, cultivating, transplanting and propagation. 18 illustrations, 90 pages. $1.25.

Doronicum Pardalianches

973 **GOLDEN BUNCH.** An excellent perennial which produces a profusion of long-stemmed flowers in May and June. Doronicum Golden Bunch has innumerable flowers of a brilliant canary-yellow. It makes large bushes of about 24 to 32 inches high and is ideal for cut flowers and perennial borders. **Pkt., 50c.**

Doronicum, Golden Bunch

Dianthus Deltoides—Maiden Pink

Dianthus - Hardy Garden Pinks

Every garden should include some of the pinks because they are so easily grown and make such a wonderful display with their bright colored flowers. The plants are covered with sweet-scented flowers all during the summer. Grows about 1 foot high.

®957 **ALLWOODI.** Mixed. A splendid strain, being half carnation and half pink. 75 per cent come double. **Pkt., 35c.**

BARBATUS. See Sweet William, page 51.

958 **HIGHLAND QUEEN.** The most brilliant perennial Dianthus in cultivation, bearing in profusion flowers of a lustrous scarlet-vermilion color, which captivates the beholder at first sight. It is extremely hardy, of vigorous growth, and ideal for bedding, borders and the rock garden, continuing in bloom, as it does, from end of May until frost. **Pkt., 25c.**

959 **HIGHLAND HYBRIDS.** Tall strong-stemmed Pinks in a mixture of colors, beautifully marked and zoned; of the same habits as Highland Queen. **Pkt., 20c.**

®960 **PLUMARIUS** (Pheasant's Eye Pink). A semi-double hardy variety, clove-scented. Flowers blush white, shaded with crimson and maroon. **Pkt., 10c; ¼ oz., 25c.**

Dianthus Species

These well-known mountain plants are for the sunny border or sunny, exposed places in the rock garden or rock wall. They flower generally after the spring flowers are over and some are very fragrant. While having all the outward characteristics of high alpine plants, the varieties we list are as friendly and easily grown as Arabis or Alyssum. Hardy perennials.

CULTURE. Easily raised from seed, germinating quickly. Plant in ordinary good soil, which contains some lime and which should be well drained.

®961 **CAESIUS** (Cheddar Pink). Pleasing to the eye at all seasons with its tufts of grey, narrow leaves and rose-pink, fringed, spice-scented blossoms. Good for a south wall, or any dry, hot place on the rock garden. Will vary from 5 to 10 inches high. Late May to early July. **Pkt., 10c; ⅛ oz., 35c; ¼ oz., 50c.**

®962 **DELTOIDES** (Maiden Pink). A trim sturdy dwarf plant. Deep pink, crimson-centered flowers borne in abundance. Foliage forms a dense carpet. Easily grown on the rockery. Requires sunny position. 6 to 9 inches high. May and June. **Pkt., 15c; ¼ oz., 50c.**

DIANTHUS SPECIES—Continued.

®963 **DELTOIDES. MAJOR STERN'S VARIETY.** Flowers bright crimson, with dark foliage, free-flowering. **Pkt., 20c; 1/16 oz., 50c.**

964 **DELTOIDES ERECTA.** Bright red, very erect with none of the straggly appearance characteristic of this type. **Pkt., 20c.**

965 **DELIGHT.** Will grow about nine inches high of neat erect habit, will bloom from June to October. Flowers ½ inch wide in shades from the palest pink down to the deepest purple and reds. **Pkt., 25c.**

966 **LITTLE JOCK HYBRIDS.** Not more than 6 to 8 inches high, the compact plants produce a multitude of prettily fringed flowers, about an inch across, in varied tints of pink, rose and white, mostly with a deep zone, and quite 50 per cent of them are double. **Pkt., 20c.**

967 **SUPERBUS, LOVELINESS.** The plants are 12 to 15 inches tall, of good branching habit and very free-flowering. The shaggy appearing, finely fringed flowers of delicate rosy lilac are highly sweet-scented and measure from 1½ to 2 inches across. **Pkt., 15c.**

ANNUAL PINKS. See page 31.

Gaillardia - Blanket Flower

The Gaillardias are wonderful for cut flowers, blooming right through until frost, and adapt themselves to almost any kind of soil.

974 **MONARCH STRAIN MIXED.** Many years have been spent to evolve a strain of mixed perennial Gaillardia which would produce from seed, plants that, in form and flower, would equal the quality to be found in the better-named varieties. This strain contains those characteristics and each and every flower is perfect in form and coloring, and the plants have a robustness seldom found in Gaillardia. The blooms are large and full petalled, and it is almost impossible to find any of the objectionable wheeled forms that so frequently appear in mixtures from seed.

The ground coloring is, of course, golden yellow in varying tones, but the zones differ both in color and character to an amazing degree. **Pkt., 20c.**

975 **SUNSET.** A pure yellow perennial Gaillardia of good form. **Pkt., 20c.**

976 **"TORCHLIGHT."** In "Torchlight," however, the stems are much stronger and stiffer than in any variety hitherto produced, making the habit much more compact and they attain a length of 2 to 2½ feet. The flowers are golden-yellow with a rich maroon-red center and often measure as much as 5 inches across. **Pkt., 20c.**

977 **PORTOLA HYBRIDS.** A superb new variety bearing flowers of immense size on long stems. The colors range through shades of bronze-red with golden tips; very robust. Hardy perennial. **Pkt., 15c.**

978 **GRANDIFLORA.** Superb mixed hardy perennial. **Pkt., 10c; ¼ oz., 25c.**

®979 **GOBLIN.** This is the first dwarf, compact variety of Gaillardia especially suited for the rockery. The neat plants reach a height of 12-15 inches and are covered with large showy yellow bordered red flowers. **Pkt., 15c.**

Gazania

980 **SPLENDENS.** A very showy half hardy perennial which flowers the first year from an early sowing. The plants are low growing, with a goodly quantity of long stemmed, showy daisylike flowers in brilliant shades of orange and yellow, as well as cream and white. Each flower is marked at the base of the petals with black, brown, or green spots. It is fine for summer bedding or border work, doing best in a sunny location. **Pkt., 20c.**

Gaillardia, Torchlight

Gentiana - Blue Gentian

Beautiful Alpine perennials admirably suited for the border and rock gardens.

CULTURE. Gentians are slow to establish themselves, requiring special care to grow them successfully. Should be grown in a rich moist loam containing a fair amount of well-decayed cattle manure. It is advisable in all cases to mix peat or leaf mold freely with the soil before planting. Top dress with well-rotted manure in the spring. The plants should be well supplied with moisture in dry weather. Gentians do not like to be disturbed once they are established.

®981 **ACAULIS** (Gentianella). Large blue, bell-shaped flowers marked inside with yellow, rising from rosettes of glossy leaves. Leave undisturbed. As seeds are often slow to germinate, it is advisable to soak them well before sowing. Height, 4 inches. March to May. Hardy perennial. **Pkt., 25c.**

Gerbera - Transvaal Daisy

982 **JAMESONI.** Large daisy-like blooms on long stems in shades of yellow and red, attracting attention everywhere. Thrives well as a pot plant or in the greenhouse. May also be grown in the open, if provided with winter protection. Height, 18 inches. Half-hardy perennial. **Pkt., 40c.**

Geum - Avens

Geums have become indispensable border plants. The sorts named below bloom from early summer till late autumn, and the flowers, both for their purity of color and graceful poise, are much prized for cutting. Hardy perennial.

®983 **DOUBLE, MRS. BRADSHAW.** The orange-scarlet flowers are very large and full, comes quite true from seeds and blooms the first year. This is a great advance over any other Geum seedling. Height 18 inches. **Pkt., 10c; 1/16 oz., 35c.**

®984 **DOUBLE LADY STRATHEDEN.** Fine, rich golden-yellow flowers, which match in other respects the popular scarlet variety, Mrs. Bradshaw, and will become as general a favorite. Height, 18 inches. **Pkt., 15c; 1/16 oz., 50c.**

985 **GEUM, ORANGE QUEEN.** This very fine new variety of a shade intermediate between that of Mrs. Bradshaw and Lady Stratheden, a bright orange-scarlet, has been in large demand during the past season. **Pkt., 15c; 1/16 oz., 50c.**

Double Hollyhocks

Hibiscus - Rose Mallow or Marsh Mallow

994 **GIANT FLOWERING.** Mixed. Showy, ornamental shrub, growing to a large size and blooming the first year from spring-sown seed. Hardy as an oak and will thrive in any soil. The flowers often measure 8 to 10 inches across, are gorgeous in colors and bloom in great profusion from late July to frost. Mixed colors. **Pkt., 10c; ¼ oz., 35c.**

Hollyhock

995 **DOUBLE WHITE.** An improved strain producing perfect double flowers. **Pkt., 10c; ¼ oz., 50c.**
996 **NEWPORT PINK.** Pure pink; flower very double. **Pkt., 10c; ¼ oz., 50c.**
997 **DOUBLE SCARLET.** Very brilliant. **Pkt., 10c; ¼ oz., 50c.**
998 **DOUBLE YELLOW.** A bright lemon color. **Pkt., 10c; ¼ oz., 50c.**
999 **DOUBLE MIXED.** Comprises all shades. **Pkt., 10c; ¼ oz., 40c.**
1000 **SINGLE HOLLYHOCKS.** Mixed. **Pkt., 10c; ¼ oz., 25c.**

Honesty - Lunaria

1001 **BIENNIS ALBA** (Saint Peter's Penny). Hardy perennial admired for its silvery seed pods, used for winter bouquets. Beautiful cross-shaped flower. Sow in open ground in May. Protect over winter. **Pkt., 10c; ¼ oz., 25c.**
ICE PLANT. See Mesembryanthemum, page 52.

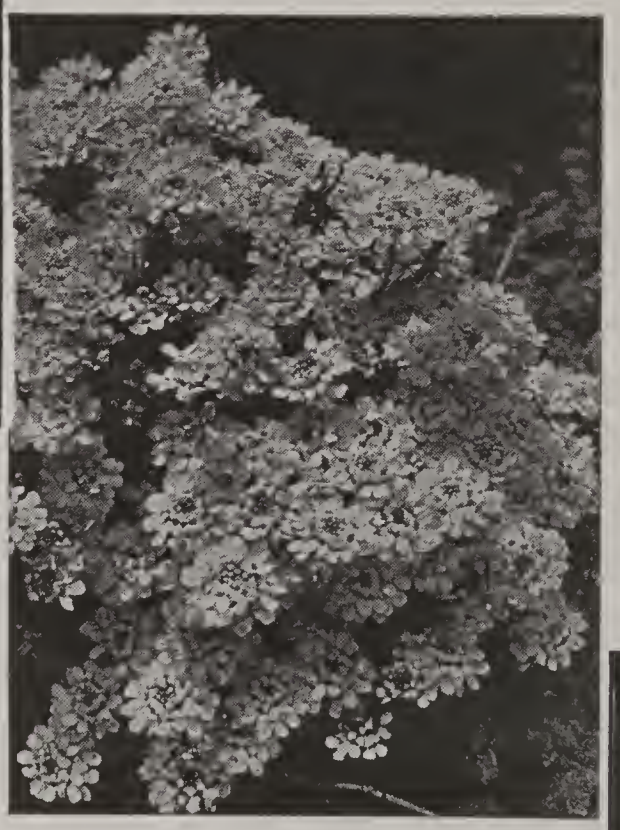
Iberis - Hardy Candytuft

Low evergreen, shrubby perennial plants which are very valuable for dry sunny places, that are well-drained. The plants should be clipped over after flowering, in order to keep them compact and sightly. Easily raised from seed.
®1002 **JUCUNDA.** Pink. Very dwarf. **Pkt., 20c.**
®1003 **SEMPERVIRENS.** A splendid shrubby plant bearing dense clusters of china white blossoms, which cover almost entirely the dark, shining evergreen foliage. It is a good border plant, fine for dry walls, and the rock garden. Will grow either in a sunny or half-shaded position, 10 to 12 inches. May and early June. **Pkt., 15c; ⅛ oz., 60c.**
®1004 **GIBRALTARICA.** A very showy and large flowering variety with lilac-pink blossoms. A less hardy sort, needing protection in winter. It must be given the hottest and driest position. Prefers a light soil. 10 to 12 inches. May and June. **Pkt., 15c; ⅛ oz., 40c.**

Lathyrus Latifolius

(Everlasting, or Hardy Sweet Pea)

Showy, free-flowering hardy perennial climbers for covering old stumps, fences, etc., continually in bloom; fine for cutting.
1005 **MIXED.** All colors. **Pkt., 10c; ¼ oz., 25c.**



Iberis Sempervirens

Lavender - Lavandula Vera

1006 Well known, sweet-scented, hardy perennials; should be extensively grown in the mixed border. 3 ft. **Pkt., 10c; ¼ oz., 25c.**

Leontopodium - Edelweiss

®1007 **ALPINUM.** This world famous alpine, although a native of the European Alps, being subject to severe and sudden changes of temperature, can be grown easily from seed in ordinary garden soil. Downy star-like silvery white flowers with yellow centers rise well above a tuft of narrow, hoary leaves. Grows to perfection in an elevated position in the rock garden in light, well-drained soil in full sun. Height, 6 inches. June and July. Hardy perennial. **Pkt., 35c.**

Gypsophila - Baby's Breath

Pretty free-flowering plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers.
986 **PACIFICA.** This perennial Baby's Breath comes into flower after the Paniculata varieties have passed. Will bloom the first season from seed and is perfectly hardy. The plant reaches a height of 3½ feet, and it is a veritable cloud of numerous rose-colored flowers, which are excellent in bouquets for a filler. **Pkt., 20c.**
987 **PANICULATA.** Single. White flowers, fine for bouquets; blooms first year if sown early. Hardy perennial. **Pkt., 10c; ¼ oz., 25c; oz., 60c.**
988 **PANICULATA, Double.** Pure white, giving a very large percentage of double flowers. Hardy perennial. **Pkt., 20c; 1/16 oz., 60c.**
®989 **REPENS.** White. A pretty dwarf trailing species for the rockery. It has pinkish white flowers and is a continuous bloomer. Hardy perennial. **Pkt., 10c; ⅛ oz., 35c.**
®990 **REPENS ROSEA.** A pale pink form of the above variety, both lovely in the rock garden or in the dry wall. **Pkt., 15c; 1/16 oz., 35c; ⅛ oz., 60c.**

Helianthemum - Rock or Sun Rose

Low growing, shrubby evergreen perennial plants, loving sunshine and dry, exposed positions. Easily raised from seed, but should be sown right out in the open where they are to bloom, or grown in pots and then set out.
®991 **MUTABILE.** Forms a low mat of glossy foliage which is hidden by a mass of rose, pink, white and yellow flowers during early June and July. 8 to 12 inches. **Pkt., 10c; ⅛ oz., 35c; ¼ oz., 50c.**

Heuchera - Coralbells

A very graceful hardy perennial for rockeries and borders. Foliage pale green, dwarf and compact, above which rise numerous panicles of flowers which are excellent for cutting. Easily grown from seed.
®992 **SANGUINEA MAXIMA.** Flowers bright coral red, very free-flowering, grows in either sun or half shade. 12 to 18 inches. June to September. **Pkt., 25c.**
®993 **CHOICE HYBRIDS.** Embrace every shade from white to glowing crimson. **Pkt., 15c; 1/16 oz., 60c.**

Lunaria - Honesty or Money Plant

Liatris - Blazing Star

1008 SCARIOSA. Spikes of deep purple flowers. 3 to 4 feet, August and September. Hardy perennial. **Pkt., 15c.**

Lilium

1009 PHILIPPINENSE FORMOSANUM. Long white trumpet flowers of purest white, slightly marked externally with reddish brown. Very refined and graceful. Will flower from seed within 6 to 8 months. **Pkt., 35c.**

1010 REGALE (Regal Lily). It is absolutely hardy and is excellent for forcing. The flowers are white, slightly suffused with pink, with a beautiful shade of canary-yellow at the center, and extending part way up the trumpet. It is delightfully perfumed, reminding one of the jasmine, and lacking the heavy, oppressive odor of most Lilies. Blooms out-of-doors early in July, and seedling bulbs will flower the second year. Lift the bulblets in fall and replant to greater depth in their permanent location. **Pkt., 15c; ⅛ oz., 35c.**

1011 TENUIFOLIUM (Coral Lily of Siberia). It is a gem. Perfectly hardy. One of the earliest to flower. 24 in. high with the flowers up and down on the stem. Blooms are deep scarlet and have recurled petals of waxy texture. **Pkt., 25c.**

1012 WILLMOTTIAE. Flowers vivid orange-red with the recurved petals being spotted with brown, slender foliage of a rich brown. **Pkt., 35c.**

Linum - Flax

Showy, free-flowering plants with feathery foliage, suitable for dry, sunny borders or rock gardens. Will not thrive in heavy, damp soils.

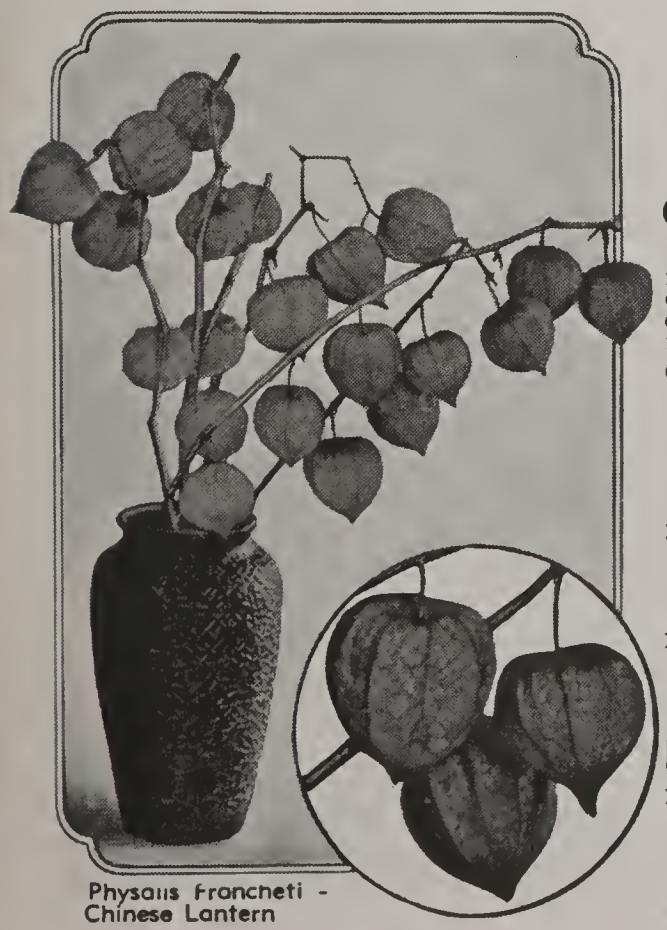
®**1013 FLAVUM.** Gay yellow flowers in loose clusters. Foliage dark green, forming a dwarf group in the perennial border. Thrives in a sunny situation in light rich soil. Hardy perennial. **Pkt., 15c; ⅛ oz., 60c.**

®**1014 PERENNE.** Bright blue flowers, Hardy perennial. 18 inches. **Pkt., 10c; ¼ oz., 25c.**

Lychnis

A fine old-fashioned flower, bearing large heads of brilliantly colored flowers, that liven up the border during summer and early autumn. Hardy perennial.

1020 VISCARIA SPLENDENS. Brilliant red. **Pkt., 10c; ¼ oz., 25c.**



Physalis Francheti - Chinese Lantern

Lupinus Polyphyllus

Most beautiful hardy border plants producing tufts of soft green foliage, from which arise in continuous succession the stately spikes of bloom. Do not disturb plants after they are once established. June and September.

1015 DOWNER'S HYBRIDS. Perpetual flowering new hybrids. **Pkt., 15c; ¼ oz., 45c.**

1016 BLUE. Pkt., 10c; ¼ oz., 25c.

1017 PINK. Pkt., 15c; ¼ oz., 40c.

1018 SUPERB MIXED. Pkt., 10c; ¼ oz., 25c.

1019 ARBOREUS SWEET LAVENDER. A new color and amazingly sweet scented. A bright lavender, merging to white, a rapid grower and seed sown in May will produce plants 3 feet high the following spring. **Pkt., 20c.**

For more beautiful and luxuriant Sweet Peas and Lupinus, inoculate with Nitragin. See page 53.

Myosotis - Forget-Me-Not

®**1021 PALUSTRIS SEMPERFLORENS.** An ever-blooming variety, beginning to flower in May and continuing till autumn. Large clear, blue flowers in pretty spray. Perennial. **Pkt., 10c; ⅛ oz., 50c.**

Nepeta - Catnip

®**1022 NERVOSA.** A splendid plant for the larger type of Rock Garden and much superior for this purpose to Nepeta Mussini. The flowers are of a clear light blue and have a brighter and more attractive effect than the latter. The plant continues in bloom from midsummer until the early autumn. Thrives in any light garden soil in a sunny situation. Hardy perennial. **Pkt., 15c.**

Nierembergia

(Blue Cup Flower)

1023 HIPPOMANICA. Very neat and tidy plant forming a dense mat four to six inches high and about one foot across. Literally covered with beautiful lavender blue cup-shaped flowers with a touch of yellow in the center. Flowers grow 1½ to 2 inches across and are borne most profusely through the summer and continue to bloom until heavy frost of late fall. Ideal for the rock garden, borders, edgings and very effective in pots or baskets. A hardy perennial blooming in about 15 weeks after the seed is sown. **Pkt., 35c.**

Oenothera - Evening Primrose

The Oenotheras are chiefly used in the rockery and border. All require a well-drained light soil intermixed with well-decayed manure. They are apt to perish in winter if grown in heavy, damp soils.

®**1024 MISSOURIENSIS.** A low species with prostrate ascending branches. A profuse bloomer. Solitary yellow flowers often 4 inches across. Height, 10 inches; in bloom from June until August. Hardy perennial. **Pkt., 15c; ⅛ oz., 65c.**

PANSIES, TUFTED. See Viola, page 51.

Phlox, Perennial

1026 DECUSSATA MIXED. Contains all the new brilliant colors; large flowering. **Pkt., 15c; ¼ oz., 60c.**

Pentstemon - Beard Tongue

1025 GLOXINIOIDES, "SENSATION." Gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, pink, lilac, purple, etc. **Pkt., 15c; 2 pkts., 25c.**

PETUNIA. **See pages 36, 37.**

Lupinus, Downer's Hybrids

Physalis - Chinese Lantern Plant

1027 FRANCHETI. An ornamental plant forming dense bushes about two feet high, producing freely its bright orange-scarlet lantern-like fruits, which can be cut and dried for winter bouquets; highly interesting. Perennial. **Pkt., 10c; ¼ oz., 35c.**

Physostegia - False Dragon Head

One of the prettiest hardy perennials and gaining in popularity as it becomes better known. It forms dense bushes 3 to 4 feet high, bearing freely during the summer months spikes of delicate rosy lilac or white tubular flowers, not unlike a gigantic heather.

1028 VIRGINICA. Rose-lilac. **Pkt., 10c; ⅛ oz., 50c.**

Platycodon - Balloon Flower or Japanese Bellflower

One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery; easily raised from seed, which begins blooming in August if sown outdoors in April.

1029 GRANDIFLORUM BLUE. Large deep blue flowers. **Pkt., 10c; ¼ oz., 40c.**

1030 GRANDIFLORUM ALBUM. Pure white. **Pkt., 10c; ⅛ oz., 40c.**

®**1031 MARIESI.** A beautiful dwarf species, with broad, thick foliage and large, deep violet-blue flowers on 12-inch stems in great profusion throughout the entire summer. Plant in front of the border or in the rock garden. **Pkt., 15c; 1/16 oz., 65c.**

Pyrethrum, Single and Double Painted Daisies

Perennial Poppies

Oriental Poppies (Papaver Orientale)

These are highly decorative. Their huge, brightly colored flowers are borne profusely during May and June. Sow where to bloom. Height, 3 feet.

1032 **BEAUTY OF LIVERMORE.** Crimson, black blotch. **Pkt., 15c.**

1033 **ORIENTALE, PERRY'S WHITE.** The flowers are a fine satiny white with a crimson-maroon blotch at the base of each petal. **Pkt., 25c.**

1034 **SALMON QUEEN.** Lovely salmon-yellow. **Pkt., 20c.**

1035 **ORIENTALE SCARLET.** Very hardy, producing showy scarlet flowers. **Pkt., 10c; ⅛ oz., 25c.**

1036 **ORIENTALE HYBRIDS.** Mixed colors. **Pkt., 10c; ⅛ oz., 40c.**

Iceland Poppies - Papaver Nudicaule

Graceful light green tufts of foliage; large gaily colored flowers on stems 1 foot tall. Bloom for many months.

1037 **FAKENHAM HYBRIDS.** A blend of new tints, such as apricot, biscuit, mauve, deep tangerine, all shades of lemon and many others. **Pkt., 20c; 1/16 oz., 65c.**

1038 **SUNBEAM MIXED.** Long stems and large flowers. **Pkt., 10c; ⅛ oz., 25c.**

Potentilla

A hardy perennial trailing plant which covers the ground rapidly, sending out many roots. Potentillas resemble the strawberry plants, especially in the manner of growth and the foliage.

®1039 **NEPALENSIS, MISS WILLMOTT.** Flowers salmon-pink, very freely produced. **Pkt., 15o; 1/16 oz., 35c.**

Pyrethrum - Painted Daisy

1047 **HYBRIDUM.** Single and double varieties, mixed. Hardy perennial, bearing large daisy-like flowers, ranging in color from white to deep red, with bright yellow centers; blooms in May and June, and again in the fall; and is one of the most graceful and long-lasting cut flowers. 2 feet. **Pkt., 15c; ⅛ oz., 50c.**

DOWN THE PRIMROSE PATH

Primula - Hardy Primrose

The Primrose is a splendid plant for naturalizing near shrubs or shaded nooks and moist places on the rockery. Primroses are not at home in the open herbaceous borders, but thrive in sheltered, lightly wooded places, where they may grow among the Violets, Hepaticas and Bloodroot. They generally establish themselves in damp and shaded positions which are generally most difficult to fill. Perennial.

®1040 **CASHMERIANA.** Large purplish blue flowers in globe-shaped clusters. Foliage beautiful. Thrives in moist loam having good drainage; prefers a half-shaded situation. Blooms early. 8 to 12 inches high. **Pkt., 35c.**

®1041 **CORTUSOIDES.** Broad soft foliage in a rosette close to the ground. Flowers in early summer, deep rose; prefers light, rich, well drained soil, in a half-shaded position in the border or rockery. 6 to 10 inches high. **Pkt., 25c.**

®1042 **VULGARIS.** The old Engish Primrose with pale yellow flowers. 6 to 9 inches high. Grows in half shade. Mid-April to June. **Pkt., 15c; 1/16 oz., 40c; ⅛ oz., 65c.**

Polyanthus

(Bunch Primrose)

Showy, free-flowering perennials that should be used largely in borders, wild gardens and rockeries. If your soil is light and dry and you have no shaded situations, do not try to grow the true Primroses as offered above, but confine your efforts to the Polyanthus that we list below. The Polyanthus or Bunch Primroses will thrive in full sun if they have some moisture at the root; if not, they must be given the comfort of partial shade.

®1043 **MRS. BERKELEY'S STRAIN.** The seed of this strain is saved only from the largest flowers having the best form and special pains are taken to ensure as wide a range of colors as possible, including brilliant shades of red, orange and bronze, as well as the richest maroons and yellows, and pure white. **Pkt., 35c.**

®1044 **MUNSTEAD STRAIN MIXED.** This strain of Bunch Primroses has been perfected in the gardens of Miss Jekyll of England. The flowers show shades of yellow, from cream to dark orange. 6 to 10 inches. Late April and May. **Pkt., 35c.**

®1045 **VERIS** (Cowslip). Mixed shades of yellow, very fragrant. 6 to 10 inches. Late April and May. **Pkt., 15c.**

Our Primroses are pure strains from the best English growers.

1046 **GIANT BOUQUET.** A magnificent development of this old garden favorite, the flowers often 2 inches across. They are produced in great numbers and display an immense variety of color from white to cream, yellow, scarlet, purple and crimson. **Pkt., 25c.**

Saponaria - Rock Soapwort

®1048 **OCYMOIDES SPLENDENS.** Elegant trailing perennial with pretty rich rose-colored flowers; suitable for rockeries. **Pkt., 10c; ¼ oz., 30c.**

SHASTA DAISY. See Chrysanthemum, page 45.

Perennial Scabiosa

1049 **ISAAC HOUSE STRAIN.** A wonderful improvement in perennial Scabiosa. They are more vigorous in their plant growth, having longer and stouter stems with the average size of flower more than a third larger than the best strain of Caucasica we have heretofore seen. The outer edges are ruffled and fringed and the colors range from a very light lavender to a dark blue. **Pkt., 25c.**

1050 **FISCHERI.** A fine new border plant from Manchuria, hardy and truly perennial, growing about 20 inches high with handsome divided leaves and flowering well into the autumn. The flowers are about 2½ inches in diameter, borne on long stiff stems, and are of a rich deep violet-blue shade, unlike that of any other Scabiosa. This handsome plant, about 2½ feet high, will make an excellent addition to the herbaceous border, and furnish first-rate material for cutting. **Pkt., 25c.**

1051 **COLUMBARIA.** This is a South African form of the European Scabiosa and although reminiscent of Caucasica, is a distinct type. It can be briefly described as a hardy, low growing perennial with fine, light green foliage, some of the flowers measuring from two and a half inches across with short, compact petals, borne on long, slender, but strong stems. We offer this choice perennial in a beautiful pink shade which is a new color in Perennial Scabiosa. **Pkt., 20c.**

1052 **CAUCASICA BLUE PERFECTION.** 3 feet. Especially valuable for cutting, the blooms lasting an unusually long time in water. **Pkt., 15c.**

1053 **CAUCASICA ALBA.** A large, pure white variety; the flowers, three to four inches across on long stems, are exquisite for vases, lasting a long time. **Pkt., 15c.**

Stokesia - Cornflower Aster

1054 **CYANEA.** This is not new, but is a rare and beautiful hardy perennial The plant grows about 24 inches high each bearing from 20 to 30 handsome lavender-blue cornflower-like blossoms; in bloom from July till frost One of the choicest subjects for the hardy border and indispensable for cutting. **Pkt., 10c; ⅛ oz., 25c.**

Sweet Rocket - Hesperis

Old-fashioned garden plants; growing about 3 feet high, bearing spikes of showy fragrant flowers. Excellent for naturalizing among shrubbery or for planting in a permanent border. Hardy perennial.

1055 **VIOLET.** **Pkt., 10c; ¼ oz., 20c; oz., 60c.**

1056 **WHITE.** **Pkt., 10c; ¼ oz., 20c; oz., 60c.**

1057 **MIXED.** **Pkt., 10c; ¼ oz., 20c; oz., 60c.**

Primula Cashmeriana

Sweet William - Dianthus Barbatus

A well-known, old-fashioned perennial which has long been used for beds and borders. It is one of the most desirable plants in the garden, is easily grown, very hardy and free-flowering, continuing in bloom for several weeks. The flowers are borne in heads or clusters, sweet scented, in brilliant colors ranging from pure white through pink, crimson, etc., to deep purple. Most of them have two colors in the same flower. They are borne on stiff stems in graceful profusion and the clusters are often 3 to 4 inches across. Useful for cutting. Height, 1½ feet.

1058 **NEWPORT PINK.** A distinct new color which originated in one of the far-famed gardens at Newport, R. I. In color it is what florists call watermelon-pink or salmony rose. Strikingly brilliant and beautiful; the flowers are borne in massive heads on stems 18 inches high. For mid-season mass bedding it has no equal. It is also very effective for cutting. **Pkt., 10c; ¼ oz., 35c.**

1059 **HOLBORN GLORY.** This strain is a large-flowered selection of the auricula-eyed section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, while the range of color, all showing a clear, white eye, is truly superb. **Pkt., 10c; ¼ oz., 25c.**

1060 **SCARLET BEAUTY.** Intense scarlet. **Pkt., 10c; ¼ oz., 35c.**

1061 **DOUBLE MIXED.** A splendid strain of this beautiful perennial, comprising a great variety of excellent shades. **Pkt., 10c; ¼ oz., 35c.**

Thalictrum - Meadow Rue

Handsome dark foliage resembling the Columbine. The flowers are borne in feathery clusters. Very useful in making bouquets. Its light and graceful habit makes it very valuable in the perennial border or when placed among the shrubbery.

1062 **DIPTEROCARPUM.** A handsome herbaceous plant, with loose sprays of clear rosy-purple with lemon-yellow stamens and anthers. The plant is of strong growth, about 4 to 5 feet high. The flowers are produced during August and September. Thrives best in a poor soil in a sunny position. **Pkt., 15c.**

Tritoma

(Red-hot Poker, or Torch Lily)

1063 **HYBRIDA.** The introduction of new, continuous flowering Tritomas has given them a prominent place among hardy bedding plants. It is not generally known that they are readily grown from seed, many flowering the first year if sown early. Of course, for immediate results it will be better to get plants, but raising them from seed is highly interesting. Perennial. **Pkt., 15c; 2 pkts., 25c.**

Trollius - Globe Flower

1064 **LEDEBOURI, GOLDEN QUEEN.** The plant is very vigorous, grows from 3 to 4 feet in height, but its chief value lies in the size of the flowers, the intense orange color, the extreme floriferousness and the constancy with which it flowers in autumn as well as early summer. It comes practically true to type from seed. Most Trollius are rather uncertain to raise from seed when sown in the spring, but one of the greatest recommendations this introduction has is that the seed germinates freely when sown in spring. Seed germinates slowly. Soak in hot water for 5 or 6 hours before sowing. Hardy perennial. **Pkt., 35c.**

1065 **MIXED VARIETIES.** Saved from a collection of the newest varieties, ranging in color from pale yellow to deep orange; on strong stems 2 feet high. Hardy perennial. Grows best in a half-shaded moist situation. May and June. **Pkt., 15c.**

Tunica - Coat Flower

®1066 **SAXIFRAGA.** A low growing hardy perennial with narrow dark green foliage, above which rises a multitude of small pale pink blossoms. Grows about 6 inches tall, forming patches a foot or more across. Makes an excellent carpeting plant both for the rockery and as an edger for the border. Full sun. June and July. **Pkt., 10c.**

Valeriana - Garden Heliotrope

Showy hardy perennial; forms small flowers in dense clusters. Very fragrant.

1067 **CRIMSON.** **Pkt., 10c; ⅛ oz., 25c.**

Veronica - Speedwell

Hardy perennials, suitable for the border and rock gardens, of easy culture, thriving in any good ordinary soil. Cut back all faded flowers to promote new growth and additional blooms.

®1068 **SPICATA.** An elegant border plant, growing about 1½ feet high, producing long spikes of bright blue flowers in June and July. Hardy perennial. **Pkt., 15c; 1/16 oz., 60c.**

®1069 **PROSTRATA.** Prostrate foliage, brilliant blue flowers. 6 to 12 inches. May and June. A delightful perennial for the rockery or dwarf border. **Pkt., 15c.**

Viola Cornuta - Tufted Pansies

A tufted plant of strong growth bearing a profusion of faintly scented flowers the size of small Pansies. Valuable for the border or rock garden. Grows in sun or half shade, 5 to 8 inches high. If the plants are sheared several times during the season so that the flowers do not go to seed, they will bloom from late April until frost. Perennial.

®1070 **APRICOT.** A beautiful addition to this very popular type of Violas, a rich apricot shade, tinged orange toward the center. very effective in the rock garden. **Pkt., 25c.**

®1071 **JERSEY GEM.** This variety of recent introduction possesses the dwarf and everblooming habits of the Viola Cornuta or Tufted Pansies and the vigorous, bushy growth and roundish foliage of the finest English bedding varieties. Color is pure, rich violet and slightly perfumed. **Pkt., 25c.**

®1072 **ROSY GEM.** Dwarf compact habit, color rosy pink. **Pkt., 15c.**

1073 **NORMANDIE.** Rich wine-purple. **Pkt., 25c.**

1074 **PICARDIE.** Violet-blue, white eye. **Pkt., 25c.**

1075 **CORNUTA MIXED.** A mixture including all shades. **Pkt., 20c.**

Large Flowering Violas

1076 **ARKWRIGHT RUBY.** Terra-cotta markings on crimson; very fragrant. **Pkt., 35c.**

1077 **AURORA.** Bluish purple. **Pkt., 25c.**

1078 **AVALANCHE.** Pure white, great size and substance. **Pkt., 35c.**

1079 **BLUE BUTTERFLY.** Mid-blue shading to white in upper petals. **Pkt., 35c.**

1080 **PRIMROSE PERFECTION.** Beautiful shade of primrose. Dwarf and compact; the flowers are so numerous that the plant is almost hidden by them. **Pkt., 35c.**

1081 **YELLOW QUEEN.** Deep yellow. **Pkt., 35c.**

1082 **LARGE FLOWERING MIXED.** **Pkt., 35c.**

Viola Odorata

(Sweet-scented English Violet)

1083 **PRINCESS OF WALES.** Hardy violet, grows anywhere. Large, single fragrant blooms. **Pkt., 25c.**

Tritoma—Red Hot Poker

Sweet William, Holborn Glory

Trollius, Golden Queen

Flower Seeds for Greenhouse Culture

Calceolaria

1084 **"ALBERT KENT" HYBRIDS.** The warm welcome which was accorded to the Calceolaria, Albert Kent, on its introduction a few years ago has been extended to these beautiful hybrids. We offer them in a mixture which will produce ten to twelve varied colorings, possessing all the valuable characteristics of the parent variety. The plants bear immense trusses of bloom throughout the summer. **Pkt., 50c.**

Cineraria

1085 **GRANDIFLORA, JAMES' STRAIN.** A fine exhibition strain with immense flowers and vivid colorings. **Pkt., 35c.**
1086 **STELLATA, FELTHAM BEAUTY.** A beautiful mixture of many colors. **Pkt., 35c.**

Cyclamen

1087 **PERSICUM GIGANTEUM MIXED.** One of the finest strains of large flowered English Cyclamen, comprising the best shades and colors. Various shades of white, pink, crimson and dark red. Greenhouse perennial. **Pkt., 35c.**

Primula Obconica

1088 **GIGANTEA MIXED.** Splendid range of colors; flowers very large, growth vigorous. **Pkt., 35c.**

Primula Malacoides - Giant Baby Primrose

Primula Malacoides should not be sown as early as Primula Sinensis or Primula Obconica, but should be started about June for blooming early winter.

1089 **MALACOIDES FIMBRIATA.** Lovely pink flowers, delicately fringed. **Pkt., 35c.**

Smilax

1090 In many respects Smilax is the most useful, and it is certainly one of the most graceful climbers which adorns the greenhouse or conservatory; for bouquets and floral decorations it is indispensable. **¼ oz., 25c; oz., 75c; pkt., 10c.**

VINES — Climbers and Trailers

Ampelopsis - Boston Ivy

1091 **VEITCHI.** Leaves are olive-green turning to scarlet in autumn. Hardy; grows 30-60 feet. Clings firmly and permanently to walls, trees, etc. **Pkt., 10c.**

Balloon Vine - Love-in-a-Puff

1092 A rapid-growing annual climber succeeding best in light soil and in a warm situation. Has white flowers and bright green seed vessels which look like miniature balloons and therefore always arouse great interest. **Pkt., 10c; oz., 25c.**

Balsam Pear and Apple - Momordica

Tender annual climbers bearing ornamental fruits of various colors. They grow 10 to 12 feet high. Have light green foliage, rather large leaves and are very graceful.
1093 **BALSAM APPLE.** Like Balsam Pear with foliage smaller and smaller fruits, very nearly round. Green striped when young, afterwards becoming scarlet. **¼ oz., 25c; pkt., 10c.**
1094 **BALSAM PEAR.** Fruits oblong, pointed and warted, first green, afterwards changing to bright red. When fully ripe, burst open exposing the seed. Largely used for putting in alcohol or whiskey and used as a poultice or for cuts, bruises and wounds. **¼ oz., 25c; pkt., 10c.**

Canary Bird Flower

1095 **CANARY BIRD FLOWER.** A beautiful climber with small beautiful, rich yellow flowers and dark foliage, the leaves resembling palm leaves. Quick grower, attaining a height of 12 feet. Blooms profusely, July until frost. **Pkt., 10c.**

Cardinal Climber

1096 The most brilliant, beautiful and distinct annual climber introduced for many years. Rapid grower with branching habit; flowers all summer; cardinal-red clusters, 15 to 25 feet. **¼ oz., 35c; pkt., 10c.**

Cobaea Scandens

An attractive, rapid growing climber with large bell-shaped flowers which at first are green but gradually change to a deep violet-blue. The foliage is handsome, dark green; a great profusion of tendrils is produced and it is valuable for arches, trellises, arbors, and attains a height of 30 feet in a season.
1097 **Blue.** ¼ oz., 25c; pkt., 10c.

Cypress Vine

A beautiful rapid growing climber with delicately cut vivid green foliage and star like flowers which make a most effective contrast with the leaves. Annual. About 15 feet high.
1098 **Mixed.** Scarlet and white. ¼ oz., 25c; pkt., 10c.

Gourds

Interesting in the Garden—Decorative in the House

Rapid growing annual climbers suitable for sowing around arbors, trellises, fencing, etc. Large fruited gourds are used as dippers, bird houses, etc., and the small fruited gourds are enormously popular for table decorations.

SMALL FRUITS

1099 **APPLE SHAPED.** Striped.
1100 **BOTTLE.** Miniature.
1101 **EGG SHAPED.**
1102 **PEAR.** Striped yellow and green.
1103 **SPOON.**
1104 **TURK'S CAP.**
1105 **WARTED SORTS MIXED.**
Any of above, pkt., 10c; 1 oz., 35c.
1106 **SMALL VARIETIES MIXED.**
Pkt., 10c; 1 oz., 25c.

LARGE FRUITS

1107 **BIRD'S NEST.** For bird houses.
1108 **CALABASH.** (Pipe Gourd, Powder Horn or Penguin Gourd).
1109 **DIPPER.** Used for dippers.
1110 **DISH CLOTH.**
1111 **HERCULES' CLUB.**
Price: Any of above, pkt., 10c; 1 oz., 35c.
1112 **LARGE VARIETIES MIXED.**
Pkt., 10c; oz., 25c.

Ornamental Gourds

Hyacinth Bean - Dolichos Lablab

A beautiful tender annual bearing large clusters of purple and white flowers which are afterwards followed by ornamental purple seed pods. Height, 15 to 20 feet.
1113 **MIXED COLORS.** Oz., 25c; pkt., 10c.

Ice Plant - Mesembryanthemum

®1114 Valuable for hanging baskets, rockwork, vases and window boxes. It is curious growing, the leaves and stems appearing as though covered with ice crystals. A tender trailing annual growing about 6 inches high and the vines will extend 2 feet long. **¼ oz., 25c; pkt., 10c.**

Moonflowers

These beautiful climbers grow rapidly and will reach a height of 20 to 30 feet. For best results, start seeds indoors and set plants out when weather has become warm. Soaking the seed in warm water for 24 hours is beneficial.
1115 **GIANT PINK HYBRID.** A beautiful lavender-pink. Large flowers, large sub-tropical foliage. **½ oz., 35c; oz., 60c; pkt., 10c.**
1116 **SKY BLUE.** Large sky-blue flowers. Blooms profusely. A strong growing vine, excellent for porches, garden houses, etc. Blooms late September and October. **¼ oz., 50c; pkt., 10c.**
1117 **GIANT WHITE.** The vines are just covered with immense white flowers, opening in the evening and remaining open during cloudy days. **½ oz., 30c; oz., 50c; pkt., 10c.**

Morning Glories

The well-known and popular hardy annual climbers which produce large trumpet-like flowers of many brilliant colors. Seed is sown where they are to bloom, thinning as may be desired. Height, 10 to 15 feet.
1118 **ROSE MARIE.** We have the pleasure of offering an early, free-flowering double form of Ipomoea. Flowers are a beautiful shade of deep rose of double and semi-double form. We predict Rose Marie will become as popular as Ipomoea Heavenly Blue Morning Glory is today. **¼ oz. 25c; pkt. 10c.**
1119 **HEAVENLY BLUE.** Immense flowers of bright sky-blue, very beautiful. **¼ oz., 50c; pkt., 10c.**
1120 **JAPANESE.** Largest flowers, often 3 inches across, in magnificent colors and brilliantly marked. **Oz., 25c; pkt., 10c.**
NASTURTIUM. (Tall). See page 35.

Passion Flower

1121 **COERULEA.** Quick growing vine, with gorgeous, clear blue flowers of extraordinary design. **Pkt., 15c.**

Scarlet Runner Beans

1122. A splendid ornamental climbing bean bearing handsome large sprays of bright scarlet, pea-shaped blossoms. Large, showy, rich green foliage that gives ample shade. **Pkt., 10c; ¼ lb., 15c; ½ lb., 25c; lb., 45c.**

Thunbergia - Black-Eyed Susan

An attractive climber growing 4 to 6 feet long which is largely used for garden vases, window-boxes, hanging baskets, etc. Flowers are about 1 inch across, being of creamy white, buff and orange colors with very dark brown throats; very free-blooming. A very attractive plant both in foliage and in abundance of flowers.
1123 **MIXED.** ¼ oz., 30c; pkt., 10c.

General List of Field Seeds

Prices on all Field Seeds are subject to fluctuations. We will be glad to quote you firm prices on request. Orders entrusted to us will be filled at the lowest price on the day received.

ACME Brand FARM SEEDS Tested to Give Best Results

Our Seed Testing Laboratory is qualified under the rules of the Official Analysts Association of North America.

Look for this emblem, and the red, white, and blue tag attached to the bag, denoting United States Verified Origin Red Clover and Alfalfa. We issue these certificates under United States Department of Agriculture supervision.

This is for your protection. You should know where the seed you buy is grown.

LESPEDEZA. Korean is an annual legume, and under favorable conditions will reseed itself. It is best adapted to thin or acid soils. 15 to 25 pounds usually sown per acre from February to April 15th. **Sericea** is a perennial Lespedeza. Scarified seed can be sown at the rate of 4 to 5 pounds per acre in spring after danger of frost and as late as April 15th.

RED CLOVER (Trifolium pratense). Too well known to need extended description. Can be sown either in the spring or fall, and requires 8 to 12 lbs. per acre alone or 5 to 6 lbs. per acre if in mixture with grasses.

MAMMOTH OR SAPLING CLOVER. Similar to Red Clover but of larger growth and blooms three weeks later, hence more valuable for sowing with Timothy. It also forms better aftermath than Red Clover. Requires same quantity of seed as Red Clover per acre.

ALSIKE CLOVER (Trifolium hybridum). One of the best Clovers for sowing with Timothy, as they mature at the same time. Blossoms flesh color. It is very hardy and will do well on thin or poorly drained soils making very satisfactory pasturage. It is also valuable for hay. If sown alone requires 4 to 6 lbs. per acre or in mixture 2 to 3 lbs. per acre.

CRIMSON CLOVER (Trifolium incarnatum). An annual for turning under as a green manure crop or as a winter cover crop sown in July or August, also early spring at rate of 15 to 20 lbs. per acre. It should be cut just before bloom stage for hay.

SWEET CLOVER. It is suitable for almost all classes of soil, except acid, and especially desirable on loamy, sandy or alluvial soils. Formerly it was used mostly for waste lands, but many prominent stock raisers are using it extensively for both pasturage and hay.

Sweet Clover is of vigorous growth and withstands extremes of heat and cold as the tap roots penetrate the soil very deeply, and it does well on both barren hillsides and bottom lands. Matures early. Can be cut two or three times a season; has a delightful and sweet scented odor, and the blossoms are particularly attractive to bees.

Scarified (Hulled) Seed should be sown in the fall, or in the spring after danger of frost is over. It requires 10 to 12 lbs. to the acre.

Unhulled Seed, however, can also be sown at the rate of 20 lbs. per acre during the winter months as frost action is necessary to loosen the hull before it will germinate. Fall sowing with winter wheat has been quite satisfactory in many sections and has become more popular in recent years for winter sowing in general.

We offer the following varieties:

White Blossom (Melilotus alba). A biennial legume, growing 5 to 6 feet high. Reseeds itself if left undisturbed. As a hay crop, however, it should be cut before it reaches the bloom stage, otherwise it may be woody and too coarse. It is cured similarly to alfalfa, but requires a little longer time. It is unsurpassed as a soil builder when properly inoculated. When pasturing, the stock should be turned in while the plants are young and tender and pastured continuously.

Yellow Blossom (Melilotus officinalis). A biennial not quite so tall growing as the White, but more desirable for pasture as the life season is much longer, producing an abundant yield of forage.

Hubam. An annual Sweet Clover with a growth of 3½ to 6 feet. Is particularly good for bees as it blooms the first year. Also excellent as a green manure crop. Most favorable results are obtained by sowing broadcast. Requires 12 to 15 lbs. per acre.

ALFALFA (Medicago sativa). Alfalfa is being more generally grown, as experience is teaching our farmers the proper methods to follow. Once established, it is such a profitable crop that every farmer can afford to take great pains to obtain a stand. It requires cutting at least twice the first season, even if not large enough to make hay. Cutting destroys any weeds that may come up in it and gives the Alfalfa a chance. Must be sown at the rate of 10 to 15 pounds per acre when sown broadcast. Different soils do not seem so difficult to overcome, especially where they can be properly drained, pulverized, sweetened and seed inoculated. Alfalfa does not thrive on acid or sour land.

A liberal dressing of fine ground lime will be found a great benefit to the soil. May be sown from April 1st to June 15th for the early spring sowing, either drilled or sown broadcast. If broadcast, cover lightly with a light drag or with single stroke of a harrow.

Much seeding is now done later and many prefer sowing from July 15th to September 15th. When seeded late it gives the grower an opportunity to have his land clean and free from weeds, and if weather conditions are favorable a crop is almost assured.

Alfalfa naturally prefers a deep, sandy or gravelly subsoil. Roots from 3 to 15 feet deep and a good stand on properly selected land should yield from 3 to 5 cuttings a year. We can supply both the Common and Grimm Type Alfalfa of Northwestern and Western origin as well as Ohio and Michigan grown stock.

Common Alfalfa. Has a purple bloom and tends to develop a single deep tap root system. It is generally found to produce more hay than the Grimm type, except when winter killing takes place.

Grimm Alfalfa. Has a variegated bloom and is characterized by a tendency toward a multiple root system. For this reason it is understood to be hardier than the Common type.

Do not Fail to Inoculate all Legumes with NITRAGIN — It Pays !

NITRAGIN The Original Legume Inoculator

INOCULATOR PRICES
When Ordering, Always Specify Name of Seed

ALFALFA, all CLOVERS	
Size	Retail
½ bu. ea.	$ .30
1 bu. ea.	.50
2½ bu. ea.	1.00

VETCH, AUSTRIAN PEAS, CANADIAN PEAS, BEANS	
½ bu. ea.	$ .25
1 bu. ea.	.40
*1⅔ bu. ea.	.60
5 bu. ea.	1.70
*12½ bu. ea.	4.00

*"100 lb." & 12½ bu. size, packed only for Vetch & Peas

LESPEDEZA	
Size	Retail
1 bu. ea.	$ .30
2 bu. ea.	.50
5 bu. ea.	1.00

PEANUTS, SOY BEANS, COW PEAS, LIMA BEANS	
1 bu. ea.	$ .30
2 bu. ea.	.50
5 bu. ea.	1.00
10 bu. ea.	1.60
*25 bu. ea.	3.00

*25 bu. size packed only for Soy Beans, Cow Peas, Peanuts

NITRAGIN GARDEN SIZE for Garden Peas, Beans, Sweet Peas, Lima Beans and Lupines. Enough for 4 lbs. seed. Retail Price.....10c each.

GENERAL LIST OF FIELD SEEDS — Continued

OATS, Swedish Type White and Fulghum. Our Oats are carefully selected and well recleaned. Do not confuse them with ordinary **feed oats.** Sow 1½ to 2½ bus. per acre.

OATS, Winter Turf Oats. For fall and spring sowing. 4 to 5 ft. high; straw is very palatable for stock. 1½ to 2 bu. per acre.

VETCH, Hairy or Sand (Vicia villosa). Winter annual, adapted to sandy soil and will do much to build up any soil especially when inoculated. Withstands cold weather. Should be sown from late August to middle of September at rate of 15 to 25 lbs. per acre. Can be sown with rye.

Spring Vetch (Vicia sativa). Used with oats for producing spring hay.

CANADA FIELD PEAS. Grown with oats will make a fodder or hay which double the production of milk. Should be sown in March or early April, two bushels of peas to two bushels of oats to the acre. The Peas should be sown first and plowed under about 4 inches deep; the oats then sowed and harrowed in. They will be ready for cutting about the end of June. when oats are in milk and the pods formed on Peas. Write for prices.

SUNFLOWER, Mammoth Russian. The best variety for the farmer. Drill in seed at about 8 to 10 lbs. to acre. It is much relished by poultry and horses. Current prices on request.

BROOM CORN. We carry varieties that are known to produce the finest quality straw, and command the highest prices. Sow 4 to 5 lbs. per acre in drills, rows 3 feet apart. Thin out the stalks to about 70 to the rod. Cultivate same as corn. Cut when seed is in the milk.

MILLET, True Tennessee Cultivated German. (Round Seed). This Millet withstands drought better than all other varieties. It is used as a summer hay crop and particularly adapted to rich or bottom soils. It should be sown thickly and cut when the heads are in bloom, never allowing it to get old or seed to form as this causes a great drain on the soil besides materially injuring the quality of hay. Very useful for cleaning rich, foul lands of weeds as its quick, abundant, luxuriant growth smothers most weeds. Sow one bushel per acre in May, June, or July. Two crops can be seeded on the same land in one season, if desired.

MILLET, White Wonder. Produces a very large head similar to the Tennessee Millet. Under certain growing conditions it is quite difficult to distinguish it from the cultivated Millet. The heads will run from six to eight inches. A very desirable feature is its earliness; the foliage is also very heavy and the leaves broad, resembling Golden Millet. It produces an immense amount of excellent fodder which cures very readily.

HUNGARIAN. Specially adapted to rich or alluvial soil. It makes a finer quality of hay than Millet on very rich soil as it does not grow so coarse. Cut at the right time, which is in bloom, and cured properly, it makes a nutritious hay; is especially popular with dairymen. Sow from three-fourths to one bushel per acre in May, June or July.

BUCKWHEAT, Japanese. A splendid crop for poor land. Largely used for bees. Sow in June, July or August at rate of three-fourths to one bushel per acre broadcast, covering with a smoothing harrow. It does not mature grain until the cool nights—hence, too early sowing is not desirable.

KAFFIR CORN. Foliage and stalks do not contain saccharine matter, hence are not so valuable for feeding, but the enormous yield of grain makes it very profitable. The grain is very largely used for poultry and stock feeding, containing a high percentage of starch.

SOY BEANS. Are becoming more popular each year as a general purpose crop, being valuable not only for hay and forage, but also for soil improvement, following or preceding other crops. They are a valuable pasture crop for hogs as well as other stock, and can be sown by themselves for this purpose; or in the corn rows and the hogs turned in to feed on them after the corn is harvested.

The value of Soy Beans as a grain crop makes it particularly adapted to systems of rotation. Like other Legumes, Soy Beans are able to utilize the nitrogen of the air, adding it to the soil. Soy Beans should therefore be inoculated. Actual experiments have shown that legumes not inoculated rob the soil; inoculated they feed the soil. Sow 1½ to 2 bushels per acre broadcast, in drills 45 pounds, after danger of frost is past.

We carry the following varieties in stock. Write for full descripton and current prices.

Best for Hay Crop: Wilson, Laredo, Black Ebony, and Virginia.

Other Varieties: Manchu, Midwest, Hollybrook, Illini, Itosan, Scioto, Dunfield, and Mammoth Yellow.

COWPEAS, The Great Soil Improving Crop. Grow best on light or sandy soils. Have a high feeding value. Belonging to the bean family, they are nitrogen gathering plants and if inoculated will improve the productiveness of the soil.

We carry the following varieties: **New Eras, Whippoorwill, and Mixed Varieties.**

New Eras are usually preferred in this section. Sow 1½ bus. per acre after danger of frost. **Use Nitragin Inoculator.**

RYE, Northern Rosen, Home Grown. Our Rye is carefully selected stock and well recleaned. Do not confuse it with ordinary milling Rye.

Barley needs a rich land and lighter than that adapted to wheat. It should be cut before fully ripe, if for hay, as it is then of better quality, and less liable to shell. Sow 1½ to 2 bushels if drilled; 2 to 2½ bushels broadcast. (48 lbs. per bu.)

We usually carry the following spring varieties:

BARLEY, Oderbrucker Bearded. Yields heavily and most commonly used in this section.

BARLEY, Spartan Bearded. But has smooth barbless beards.

BARLEY, Velvet or Barbless. A bearded variety.

Also for fall sowing we offer:

BARLEY, Winter or Fall Bearded. Description and prices on request.

DWARF ESSEX RAPE. Makes excellent pasture for both sheep and hogs, and is a fine conditioner for all live stock, except milk cows. Best results are obtained by planting in two separate fields; pasturing alternately ten days each. Plant any time, early spring to midsummer. Sow 3 pounds per acre in drills; 6 pounds broadcast.

SUDAN GRASS. Sudan Grass produces an immense yield of nutritious hay. It can be cut twice in a season if planted early in the season but after frost danger. Grows 3 to 5 feet high. It is adapted to growing in all kinds of soil but produces the largest yield in warm, temperate latitude. After first cutting it stools enormously and then furnishes exceptionally fine pasture for all stock, except milk cows. It is killed by the first frost. Eight to twelve pounds in drills, 2½ to 3 feet apart or broadcast 20 to 30 pounds per acre.

SORGHUM OR CANE, Amber and Orange. Are favorites north of the Ohio river, growing 10 to 12 feet high. It makes an excellent fodder and it is also fine for silage.

Seed Field Corn

White Varieties

Ohio White Dent and Johnson County White Dent. Probably the best known varieties and most commonly planted in this section. Produces a large ear, slightly tapering, 8 to 10 inches long. Deep, large kernel, slightly rough and dented. Matures in about 110 days.

Hickory King Corn. The ears are small, 2 to 3 on a stalk. It has the largest grains and the smallest cob of any white Corn ever introduced. This is planted extensively for green table corn, as it produces 2 to 3 good ears to the stalk and is profitable.

Southern Prolific. A White Ensilage variety, reported to produce more tons of silage to the acre than any ordinary field Corn. Stalks grow 14 to 16 feet high, bearing 2 to 4 medium size ears. Matures in about 110 to 120 days.

Red Cob Ensilage. A popular variety, fodder Corn, either to feed green or put up for the silo; produces heavy foliage.

Yellow Varieties

Woodburn Yellow Dent. An extra early variety, demand for which is increasing each year. It is quite a favorite among the Corn growers, on account of its early maturity (about 90 days). It has exceptionally good yielding qualities. The cob is small and well filled from butt to tip, grain very deep. Produces an early crop and very desirable for late planting.

Leaming. An ideal feeder's Corn of light, golden color; ripening in about 110 days; ears slightly tapering and cylindrical. They grow 8 to 10 inches long, 7 to 8 inches in circumference. The ears are from 16 to 22 rows. The cob is red and of moderate size.

Ohio Yellow Dent. A medium early yellow variety, producing ears of good length and filling out remarkably well, even under adverse conditions. Stalks of good height, producing one or two good ears, which average 10 to 11 inches long, 14 to 16 rows. Grains flinty, deep; slightly dented, rich color, and fine feeding quality. Ripens in about 110 days.

SEED CORN TREATMENT REDUCES DISEASE DAMAGE

We recommend Improved Semesan Jr., a dust disinfectant for preventing and controlling the ear, root and stalk rots of field corn. See page 61.

Our Field Corn is carefully selected, tested and graded. Ask for current prices, stating variety in which you are interested.

HYBRID SEED CORN

We can supply the following adapted yellow hybrids.

U. S. 52. A medium variety for early planting. Maturity about 110 days.

W. 17. An early type recommended for late planting. About 95 days maturity.

L. 31. Late maturing, produces large leafy fodder, large ears and deep grain.

DAHLIAS FROM SEED

Grow Dahlias from seed. Our California "De Luxe" strain has proven sensational.

20 seeds, $1.25; 100 seeds, $5.00.

See page 31.

Roots

Our stock consists of the highest quality field-grown root divisions. They arrive in good condition. Roots sent before April 1st are at buyer's risk. We take every possible precaution against freezing but cannot guarantee safe arrival. Varieties marked with a star can be had in plants at one-half root price. No plants less than 50c.

Plants

Our green plants are base cuttings from healthy stock. They are slow grown and should give as good results as roots. We pay regular postage charges, but on green plant shipments if they are in transit more than 24 hours add 25c for special delivery. Plants ready May 1st to June 15th.

Cactus

***JERSEY'S DAINTY.** Very beautiful flower, White with faint pink shadings in the center. Foliage and stems good. Easy to grow. **Root, $1.00.**

***MISS BELGIUM.** An orange with perfect formed flowers. Excellent long stems. Good sturdy grower. A good cut flower. **Root, $1.00.**

***MRS. HERBERT O'CONNOR.** Erect grower. Good stems. Fine form of soft rose-pink deepening at center. Has stood the test in hot climate. **Root, $2.50.**

***PAUL PFITZER.** Combination of primrose and shell-pink. Fine stems and excellent form. Very fine. **Root, $1.50.**

Formal Decorative

BUCKEYE BRIDE. Geranium-pink, large flower on a stem which is long and perfect. Keeps well when cut. Foliage resists insects and mildew. Vigorous. A good root maker. **Root, 50c.**

BUCKEYE KING. Gold with slight apricot suffusions and shading deeper toward center. A variety which produces many large clean appearing flowers of exceptional keeping quality. **Root, 50c.**

ELISSA LANDI. Rich brilliant salmon-orange, flowers held well out of foliage on stiff strong stems. **Root, 75c.**

HONOR BRIGHT. Clear waxy orange. Vigorous and a good commercial. Stems excellent. **Root, 50c.**

JERSEY'S BEAUTY. Lovely pink color, and long erect stems. Good keeping qualities, one of our finest standard varieties. **Root, 50c.**

***QUEEN CITY.** A Dahlia of great distinction, with a remarkable record for the season; a splendid open grower. It blooms throughout the entire season. Color is a distinctive scarlet-pink, a shade half-way between cherry-red and old rose. Good cut-flower. **Root, $2.00.**

SALADINI. Apricot-orange, fine compact formation, medium height grower, excellent cut flower variety. **Root, 50c.**

***SULTAN OF HILLCREST.** One of the finest formals. Plants laden with blooms of exhibition size. Stems good. Soft autumn with yellow reverse. **Root, 75c.**

COLLECTION No. A. Your selection of any 10 Dahlias listed at 50c each, value $5.00, **for $4.00.**

Informal Decorative

***ANNA BENEDICT.** Dark rich velvety carmine shading to very dark almost black center. This is an upright clean grower. **Root, $1.00.**

***ANDREA ERICSON.** Pure white. The huge flower is composed of broad oval petals with pointed and slightly twisted tips, which gives the flower a fluffy appearance. **Root, $1.00.**

***CALIFORNIA IDOL.** Yellow well-formed huge bloom. Low grower but vigorous. Excellent stems. A stand-out among the yellows. **Root, $1.50.**

***CHAUTAUQUA SUNSET.** Sunset colors; gold, shaded old rose and coral. Growing habits are excellent with strong, straight stems and dark green foliage. **Root, 75c.**

EVA HUNT. A good grower, heavy substance of waxy white. Foliage of dark green. Blooms are large and it is an excellent variety. **Root, $1.50.**

DAHLIAS

Each variety offered has been grown for a reasonable time and has proven worth while.

You will note many of the older varieties which are as good and by chance better than many of the new introductions. Full of vigor and under reasonable care should produce a wonderful display of bloom.

EDNA FERBER. Coral shading to old gold at base of petals. Of extreme beauty and size. Medium to tall habit of growth. **Root, 50c.**

FORT MONMOUTH. Rich wine-red with an underlying tone of brilliant crimson-maroon, slight bluish violet tone at the tips of petals. Stems are long and stiff. **Root, 50c.**

HILLCREST MANDARIN. Brilliant oriental scarlet and golden yellow, one of the brightest color combinations ever seen in a Dahlia. Thrifty grower and free bloomer. **Root, 50c.**

JEAN TRIMBEE. Flowers very large, rich petunia-violet in color. Flowers are produced freely on strong vigorous bushes. **Root, 75c.**

Queen City

JOSEPHINE G. True bright rose-pink. Center petals tipped yellow. A prolific bloomer. A sturdy grower. **Root, 50c.**

J. CHAS. McCULLOUGH (McCullough) is one of the most satisfactory Dahlias on the market for the amateur grower, because with minimum care the plant is always a delightful flowering success. The blossom is a lovely rose-pink and in form much like a Chrysanthemum. The foliage is superb. It blooms profusely both early and late. When grown by the Dahlia enthusiast the flower develops in loveliness second to none. If you are fortunate enough to grow J. Chas. McCullough let the blossoms mature properly before cutting. **Root, 50c.**

JANE COWL. This giant flower is easily the most outstanding variety of the present generation. It is far too well known to require any lengthy description. It is a glistening bronzy buff of ideal habits. **Root, 50c.**

***LORD OF AUTUMN.** Winner wherever shown. Clear yellow with huge blooms. Long stems. An ideal growing variety. **Root, $1.50.**

***OAKLEIGH MONARCH.** A red of huge dimensions. Great long stems. Excellent growth. One of the sort that men like. Vigorous. **Root, $2.50.**

ORIENTAL GLORY. Orange blooms, most attractive. Stems are long, foliage is healthy and clean. **Root, 50c.**

TOWER'S EMPIRE. A real acquisition. The color is gold with deep amber in the center. Compares favorably to Jane Cowl in style and habit of growth. Very large with flowers of great depth and wonderful keeping quality. **Root, 75c.**

W. H. T. Old rose on begonia-rose with shades on the reverse of petals. Tall, robust grower, producing big flowers on strong stems. **Root, 50c.**

Semi-Cactus

***AMELIA EARHART.** Winner that has proven its worth. Coral in color and a producer of many large blooms. Outstanding variety. **Root, $1.00.**

***BALLEGO'S SURPRISE.** Beautiful snow-white. Perfect form, free flowering on stiff stems. Good cut flower and one that ranks with the best. **Root, $2.00.**

***CHALLENGER.** Cardinal-red of good size and depth. Excellent stems. Easy to grow. No mistake about this one. **Root, $1.50.**

***ELEGANCE.** Center and tips of petals yellow, body of flower glistening coral. Ideal habits. Good bloomer with good stems. **Root, 75c.**

***FRAU O. BRACHT.** Hard to beat this outstanding grower. Primrose yellow. Clean and well-formed blooms. Fine keeper. **Root, $1.00.**

PRACHTKERL. Seedling of Frau O. Bracht but a deeper yellow and larger size. Perfect form and a good garden variety. **Root, $1.50.**

SATAN. Flaring red, staghorn petal faintly tipped old gold. Stems are long and clean. Vigorous grower. **Root, 50c.**

Pompons

DONNIE. An excellent variety that has form, color real orange and a vigor that produces abundant bloom. **Root, 50c.**

HONEY. Pale yellow with faint suffusion of red on edge of petals. Free bloomer, long stems, excellent for cutting. **Root, 40c.**

JACK. Dark maroon of excellent form. Great bloomer. Vigorous growth. **Root, 40c.**

JOHNNY. One of the smallest and best formed Poms. Dark maroon with good stems. A winner everywhere. **Root, 40c.**

LITTLE EDITH. Wonderful exhibition variety. Light yellow tipped bright carmine. Excellent form. **Root, 40c.**

MORNING MIST. White with rosy lavender center, outlined with lavender. Great bloomer. Stiff, wiry stems. Excellent. **Root, 50c.**

MRS. V. BRITTAIN. Beautiful mauve-pink of finest form. A real winner. This is a good one. One of the best to date. **Root, 75c.**

COLLECTION No. B. Your selection of any five Dahlias listed at 75c each, value $3.75, **for $3.00.**

Miniature

BABY ROYAL. Beautiful English incurved Cactus. Soft salmon-pink blended apricot. Long clean stems, wonderful for basket work. **Root, 40c.**

BUCKEYE BABY. The finest formed decorative miniature to date. Autumn colored, it is a real vigorous grower. Winner everywhere. **Root, 50c.**

CARLA. Buff suffused soft lilac-rose, most artistic flowers and very prolific. Fine stems. **Root, 50c.**

CORONNE. This miniature resembles a Gardenia. Pure white. Stems and foliage excellent. **Root, 50c.**

FAIRY. Begonia-rose, petals tightly quilled. Very artistic and a free bloomer. Stems straight and stiff. Early bloomer. **Root, 50c.**

JEAN. Artistic semi-cactus. Apricot-buff suffused lilac-rose. Prolific bloomer. Compact bush. Good stems. Excellent. **Root, 50c.**

LITTLE DREAM. A most beautifully formed cactus with splendid growth of bush. Clear pink and white. A beauty. **Root, 75c.**

LITTLE JEWELL. Peach-blossom-pink. Good vigorous grower. Flowers are small and unique. Profuse bloomer. **Root, 40c.**

ORCHID LADY. Amaranth-pink to mallow-pink. Flowering habit excellent. Good strong stems and a fine cut flower. **Root, 75c.**

RED HEAD. A charming fiery scarlet variety which resembles a rosebud when partly open. Dainty and ideal for decorations. **Root, 50c.**

SEED

You can have new thrills this fall. Grow Dahlias from seed.

If you want any other variety of Dahlia not catalogued, let us know. We have many others that are excellent for exhibition, commercial or garden use.

Note our collections. They consist of varieties that are good performers. No change permitted.

GLADIOLUS

"EVERYBODY'S ORCHID"

Not less than 6 bulbs at the dozen rate, or 25 at the 100 rate.

Any good garden soil will grow Gladiolus, provided they receive ample sunlight. Plant 2 to 4 inches deep and 4 to 6 inches apart; always give good cultivation. To obtain extra large exhibition blooms it is well to feed plants with a good balanced commercial fertilizer; for tall exhibition spikes, use the dyed green bamboo stakes. It is best to support them to insure against injury from the elements. Water copiously about two times per week. Liquid manure or blood meal will help greatly in developing the florets. In cutting spikes, always leave five leaves for continued development of bulbs. When the foliage yellows in the fall, lift bulbs and cut foliage within two inches of bulb. Let them thoroughly dry, then store in a cool, dry place.

From planting time, blooms appear in 70 to 80 days for early varieties; 80 to 90, medium; 90 to 100 for late.

AVE MARIA. Large light blue with purple blotch. This is a favorite of Pfitzer's earlier light blues. It has substance that is above the average for its color, and its spike and placement are good. **Per doz., 40c; per 100, $2.75.**

ALBATROS. A massive pure white. The spike is very tall, the florets large and the color perfect. This is undoubtedly one of the finest whites. **Per doz., 90c; per 100, $7.25.**

AMERICA. One of the finest varieties for cutting or bedding; color a beautiful soft flesh-pink; orchid-like in its coloring and texture; growth and habit perfect. **Per doz., 30c; per 100, $2.00.**

BAGDAD. Smoky old rose shading somewhat darker toward the edge and lighter in the throat. Smooth clear color. Practically a self color though there is a faint creamy blotch marked with pink. Six to eight immense blooms open at a time. Blooms often six inches or more across. Fine propagator. **Per doz., 70c; per 100, $5.75.**

BETTY NUTHALL. Warm coral-pink with pale yellow throat markings and a slight tinge of orange. Six to eight medium large blooms open. Very good propagator. One of the very best commercial varieties grown. **Per doz., 30c; per 100, $2.00.**

BLEEDING HEART. White tinted light pink with large red blotch. Tall, straight spike with 8 to 10 medium large perfectly placed blooms open. Strong grower. Good propagator. One of the very finest blotched varieties. **Per doz., 50c; per 100, $4.00.**

Queen City Collection No. 2

10 PICARDY
10 DR. F. E. BENNETT
10 AVE MARIA
10 GIANT NYMPH
6 BAGDAD
6 ALBATROS

52 large bulbs, $2.00.

BRIGHTSIDE. Canary-yellow flushed pure apricot in the upper throat and tips of orange. Tall, straight growing variety. Flowers four to five inches across. Four to eight open at once. A very beautiful variety. **Per doz., 70c; per 100, $5.75.**

COMMANDER KOEHL. Massive blood-red. Florets of this fine variety are often six inches across. Spike is exceptionally long and straight. Produces huge spikes. **Per doz., 70c; per 100, $5.75.**

DEBONAIR. La France-pink to shrimp-pink in throat with creamy throat mark. The tall, strong, always straight spike carries six to eight large open flowers. Debonair is truly excellent. **Per doz., 90c; per 100, $7.00.**

DR. F. E. BENNETT. Fiery scarlet with white lines in the throat. Seven to tight large well-placed blooms open. One of the very best for exhibition or commercial purposes. **Per doz., 40c; per 100, $2.75.**

EXCELLENCE. Very large light red, and early. The earliest large red and the largest early red. A glowing color. **Per doz., 60c; per 100, $4.75.**

GOLDEN DREAM. Tall spike of clear yellow blooms. The edge of the petals is gracefully rolled back. **Per doz., 30c; per 100, $2.00.**

GIANT NYMPH. Light pink suffused with cream-yellow; large flowers on strong spikes. **Per doz., 30c; per 100, $2.00.**

Grower's Collection No. 4

5 MARGARET FULTON
5 PREDOMINATOR
5 BRIGHTSIDE
5 WASAGA

20 large bulbs, $1.00.

LA PALOMA. Fine, tall orange primulinus grandiflorus variety. The color is most attractive, and the spike is exceptionally good. **Per doz., 40c; per 100, $3.25.**

MAID OF ORLEANS. Beautiful milky white with cream throat. Tall sturdy grower with eight or more well-placed flowers open at a time. **Per doz., 70c; per 100, $4.75.**

Fine small flowered Aristocrats that are excellent for decorative purposes. Marvelous color blends.

APRICOT GLOW. Beautiful, clear warm apricot shade. Medium size. One of the parents of Picardy. Tall straight stems. Nice for baskets. **Per doz., 30c; per 100. $2.00.**

BETTY CO-ED. Soft creamy pink. Very beautiful. Fine for baskets and florist work. **Per doz., 50c; per 100, $4.00.**

Mother Machree

MRS. CALVIN COOLIDGE. An exquisite salmon-pink primulinus with a rich yellow throat. **Per doz., 40c; per 100, $3.25.**

ORANGE BUTTERFLY. Bright orange of fine substance. Ten or twelve well-arranged medium size flowers open at a time. A spike of bloom looks like a flock of butterflies in flight. **Per doz., 40c; per 100, $3.25.**

SWEETHEART. Lovely decorative white with pink edges. **Per doz., 70c; per 100, $5.75.**

MARMORA. Gigantic silver-gray with a rose throat. A paragon of exotic beauty, Marmora, widely acclaimed as the most unusual Glad ever to reach the American Glad fan. **Per doz., 40c; per 100, $2.75.**

MARY ELIZABETH. Medium size beautifully ruffled white with yellow throat. Six to nine open on a long spike. One of the most beautiful whites. **Per doz., 90c; per 100, $7.25.**

MARGARET FULTON. Clear rich soft dark salmon of a distinct shade which is different from the color of any other variety. Six to eight well-placed medium size blooms open. Fine cut flower variety. **Per doz., 70c; per 100, $5.75.**

MRS. T. E. LANGFORD. Exquisite apple-blossom-pink with touch of canary in the throat. Good height, always straight stems with eight to ten medium size blooms open. This variety is very fine. **Per doz., 70c; per 100, $5.75.**

MINUET. Easily the most popular of all-purpose lavenders. The spike is a model of excellence, and placement is always good. Florets are large and well shaped. **Per doz., 50c; per 100, $3.50.**

Ohio Valley Collection No. 3

10 PICARDY
10 GOLDEN DREAM
10 MARMORA
6 COMMANDER KOEHL
6 LA PALOMA
10 MINUET

52 large bulbs, $2.00.

MOTHER MACHREE. Lavender overlaid toward the edges of the petals with salmon-pink. When bloomed outdoors it has a rather dull slaty color. Should be picked in the bud and opened inside where it opens into a really beautiful flower. Tall plant with eight to twelve blooms open. **Per doz., 70c; per 100, $5.75.**

PEACE. Very large, white, with pale violet feathering on lower petals; flowers correctly placed on a tall, graceful spike. **Per doz., 30c; per 100, $2.00.**

PICARDY. Truly immense spikes carry as many as eight huge open flowers. The color is so rich a salmon-pink that an average vocabulary is unable to describe it. A sensational Glad. **Per doz., 40c; per 100, $2.75.**

PELEGRINA. Richest and deepest of Pfitzer's blues. Fine rich color and good spike. **Per doz., 70c; per 100, $5.75.**

PREDOMINATOR. A tall salmon-scarlet that has received many prize awards. Fine straight spike. Can stand commercial use. A good one. **Per doz., 90c; per 100, $7.25.**

WASAGA. Glowing iridescent buff, distinctly beautiful. Color is beautifully clear, the spike good, and the florets are nicely ruffled. **Per doz., 70c; per 100, $5.75.**

WURTEMBERGIA. Fiery scarlet with cream white throat. Immense blooms on a very tall always straight spike. Most dazzling red you can imagine. **Per doz., 90c; per 100, $7.25.**

Exhibition Varieties No. 5

5 DEBONAIR
5 MOTHER MACHREE
5 COMMANDER KOEHL
5 WURTEMBERGIA

20 large bulbs, $1.00.

J. C. McCULLOUGH SUPERB MIXTURE. Large size bulbs. Brilliant colors and shades. **Per doz., 25c; per 100, $1.50.**

Cannas

Dormant Roots

Cannas do well in full sun and respond quickly to fertilizing with well-rotted manure. Blooming from early summer till frost, they give a gorgeous display without much expense or care.

Prices of named varieties listed below: **per dozen, 75c; by mail, 90c per dozen.**

Green Foliage

APRICOT. The color is a buff-yellow base overspread with salmon-pink, making a mass effect of rich apricot. 4 ft.

CANARY BIRD. Flower a pure canary-yellow, produced on strong erect stalks well above the large, rich green foliage. The color and habits of foliage identical with The President. 4 feet.

EUREKA. This is by far the very best white Canna ever introduced. Has showy large trusses. 4½ feet.

HUNGARIA. A great variety with beautiful clear rose flowers. Though old, still one of the most desirable. 3½ feet.

MRS. ALFRED CONARD. A very popular variety with glorious trusses of a bright salmon-pink color. 4 feet.

COLLECTION OF MIXED VARIETIES. Per doz., 60c; by mail, 75c.

THE PRESIDENT. The greatest of all red Cannas—a brilliant, fiery, and intense scarlet. Extremely free-flowering and wonderfully vigorous growing to a height of 5 feet.

YELLOW KING HUMBERT. As vigorous as King Humbert with bright yellow blooms dotted with bright red. It has rich green foliage and grows 4½ feet high.

Bronze-Leaved

THE AMBASSADOR. A wonderfully free-flowering variety with brilliant red blooms set off by bronzy foliage. 5 feet.

KING HUMBERT. Great massive trusses of brilliant orange-scarlet flowers that form a striking contrast to the dark coppery bronze foliage. A vigorous grower, 5 feet high.

SHENANDOAH. 4 feet. Flowers salmon-pink borne in large clusters; foliage rich ruby-red.

IT IS THRILLING

To grow Dahlias from seed. Our "De Luxe" California strain is the best that money can buy. **In packets of 20, $1.00; 100, $5.00.**

IT IS WORTH WHILE

To obtain one or more of our Gladiolus collections. **Four choices at $1.00 or $2.00.**

Waterlilies and Aquatic Plants

You have never known all the delights of a garden, if you have never known the real pleasure that comes from a pool of Waterlillies. Hardy Waterlilies thrive in pools and small ponds, no trouble to care for them. A box one foot square and one foot deep is as small as you can have for the plants to do well. The soil for Waterlilies is preferably a mixture of two-thirds rich garden soil and one-third well-rotted cattle manure. Most Waterlilies thrive at any depth from 4 to 30 inches.

PINK VARIETIES

TUBEROSA ROSEA. A delightful shade of pink. Strong, vigorous grower. **Each, 50c.**

EUGENIA DE LAND. Deep rose-pink; narrow petals. **Each, $1.25.**

PINK OPAL. The flowers are very deep pink. One of the best pink varieties. **Each, $1.00.**

YELLOW VARIETIES

MARLIACEA CHROMATELLA. Color of the bloom is bright yellow; leaves green mottled brown. **Each, $1.00.**

CHRYSANTHA. The color is orange-yellow, deepening on the third day to rich reddish brown. **Each, $1.00.**

INDIANA. A very fine copper-colored Lily. Should be in every water garden. **Each, $1.00.**

WHITE VARIETIES

MARLIACEA ALBIDA. This is one of the steadiest of bloomers. White with yellow stamens. **Each, $1.00.**

GLADSTONE. The best of all white Lilies. **Each, $1.50.**

RED VARIETIES

CARMINE LAYDEKER. Pleasing rose-colored flowers. Rapid grower. **Each, $1.00.**

GLORIOSA. The king of the red Waterlilies. It just blooms and blooms. **Each, $2.00.**

Submerged Plants

These plants are to be rooted in soil in shallow water or in the lily boxes.

Collection of 10 plants $1.00

Floating Plants

These plants float on the water and consist of a collection of Hyacinths, Shell Flower, Parrot Feather, Water Fern.

10 plants $1.00

SUMMER FLOWERING BULBS

The Beautiful Amaryllis

GIANT AMERICAN HYBRIDS. A wonderful strain of new giant-flowered Amaryllis of free-blooming habit. The large flowers are composed of broad, overlapping petals ranging from crimson, orange, scarlet, and light rose to white. The bulbs should be planted in 6-inch pots in garden loam enriched with a handful of bone fertilizer. Cover bulb up as far as the neck; water sparingly until flower stalk appears; then water more freely as plant advances in growth. Large bulbs in mixture for delivery October to March. **Each, 40c; 3 for $1.10; per doz., $4.00.**

Separate Colors of Giant American Hybrid Amaryllis

There are many gardeners who desire separate colors in Amaryllis. We offer the most popular ones below. They represent a vigorous, free-flowering strain bound to give satisfaction.

Red. Red, with White Star
Variegated Pink and White.

Any of the above, 75c each; 3 for $2.00; $7.50 per doz.

Begonias TUBEROUS ROOTED

DOUBLE. Crimson, pink, scarlet, white and yellow in separate colors. **Each, 20c; per doz., $2.00; per 100, $14.00.**

DOUBLE MIXED. Each, 20c; per doz., $2.00; per 100, $13.00.

SINGLE. Crimson, pink, scarlet, white and yellow, in separate colors. **Each, 20c; per doz., $2.00; per 100, $13.00.**

SINGLE MIXED. Each, 20c; per doz., $1.75; per 100, $12.00.

Caladiums - Elephant Ear

A vigorous growing plant which has tremendously large pendulous leaves borne on long, stiff stems. In rich soil, and with an abundance of moisture, assumes very large growth.

	Each	Doz.
7 to 9 in. circumference...	$0.07	$0.75
9 to 11 in. circumference...	.15	1.50
11 to 13 in. circumference...	.20	2.00
13 to 15 in. circumference...	.30	3.00

Madeira Vines - (MEXICAN POTATO)

A rapid-growing vine with bright, smooth leaves which produce intense shade and valuable for covering fences, outbuildings, or screening porches. Plant the roots 2 inches deep. **Each, 5c; per doz., 40c; per 100, $3.00.**

Tuberoses

Well-known summer flower, having a very sweet scent. Bulbs may be planted outside from April to June.

EXCELSIOR DWARF PEARL. The best of all double Tuberoses, producing very large finely formed flowers. **First size bulbs, each, 7c; per doz., 50c; per 100, $3.50.**

New Giant Montbretias

These new hybrid Montbretias have flowers of largest size and beautiful rich colors. The individual blooms are nearly 3 inches in diameter. They are borne on slender, wiry, branching stems frequently over 3 feet high. They are gay and attractive in the garden during late summer and fall, also giving wonderful material for cutting. Plant in April or May. **Special Mixture, each, 10c; per doz., $1.00; per 100, $7.00.**

Hardy Lilies

AURATUM (Gold-Banded Japan Lily). A large, graceful, fragrant flower composed of 6 petals of a delicate ivory-white color, thickly studded with maroon spots and striped through the center with golden yellow. Height, 3 to 5 feet. July to September. **Large bulbs, 25c each; $2.50 per doz.**

REGALE. The fragrant flowers are white, shading to pale yellow in the center, with a pink tinge on the outer edges. It grows 3 to 4 feet high, and is extremely hardy. Blooms in July. **Large bulbs, 25c each; $2.50 per doz. Extra-large bulbs, 35c each; $3.50 per doz.**

SPECIOSUM MAGNIFICUM (Rubrum). Rich ruby carmine, margined white; stout of substance and broad of petal. A very prominent variety due to its vigorous growth as well as the size and depth of coloring. Blooms in August. **35c each; $3.50 per doz.**

HENRYI. One of the best border Lilies, being 6 to 8 feet high when established, and bearing 18 to 20 flowers of a deep orange-yellow. Does well in both light and heavy soils; prefers soil with a mixture of peat. Plant 8 to 10 inches deep. Blooms in August. **25c each; $2.50 per doz.**

TENUIFOLIUM. A small Lily of brilliant coloring—deep waxy scarlet. A gem in the rock garden as well as in the border. Prefers a cool, damp, loamy soil and partial shade, but does well anywhere in well-drained soil. June flowering. **20c each; $2.00 per doz.**

TIGRINUM SPLENDENS. The finest form of Tiger Lily with the richest color. The large flowers are of a dark salmon-orange, spotted with glossy black. Easy to grow. August and September blooming. **20c each; $2.00 per doz.**

Hardy Shrubs

We do not guarantee or replace plants, shrubs or trees, at prices quoted.

These shrubs, all shedding their foliage in the winter, are quite hardy, and will thrive in practically all sections. They make a rapid and luxuriant growth. Many varieties are used in foundation plantings, and others are desirable for flowers and berries.

Althea (Rose of Sharon)

Has a characteristic upright habit useful in formal work. Plant in spring as it grows until late autumn. Flowers in August. 2-3 ft. **Each, 35c; 3 for $1.00.**

Butterfly Bush (Buddleia)

SUMMER LILAC. Semi-herbaceous plant, dying down to the ground each year. Rich lavender spikes of flowers. Will bloom from June to September. **Each, 35c; 3 for $1.00.**

Cydonia (Flowering Quince or Firebush)

JAPAN (C. japonica). Common garden form, growing from 3 to 6 feet with spreading, spicy branches. The scarlet-red flowers appear before the leaves and are followed by globular fruits from 1½ to 2 inches. Height 18 to 24 in. **Each, 35c; 3 for $1.00.**

Deutzia

PRIDE OF ROCHESTER. Showy, early, large flowering sort; blossoms in May before others. Grows 6 to 8 feet high. White flowers, large and double. 18 to 24 inches. **Each, 35c; 3 for $1.00.**

Golden Bell - Forsythia

FORTUNE'S. Grows with upright or arching branches. 2 to 3 ft. **Each, 35c; 3 for $1.00.**

SPECTABILIS. Strong grower. Showiest of all Forsythias. Of extremely dense flowering habit. Every branch covered with striking yellow flowers before foliage appears. 2 to 3 feet. **Each, 35c; 3 for $1.00.**

Hydrangea

ARBORESCENS GRANDIFLORA (Hills of Snow). During July and August large white flowers are borne in large bunches. Prune severely for best results. Useful in shade. 18-24 in. **Each, 35c; 3 for $1.00.**

PANICULATA GRANDIFLORA. Almost everyone knows the great heads of white flowers that gradually turn pink when cut and dried for decoration. 18-24 in. **Each, 35c; 3 for $1.00.**

Kolkwitzia - Beauty Bush

Shrub, growing from 6 to 8 feet tall, the whole plant forming a dome-shaped mass. The flowers are produced along the whole length of the branches in clusters at the ends of short, leafy shoots. Flowers pink. 15 to 18 in. **Each, 35c; 3 for $1.00.**

Lilac - Syringa

Old-Fashioned Fragrant Flower

PERSICA. Wiry bush 8-10 ft. Fragrant, light purple flowers, large loose clusters. **Each, 35c; 3 for $1.00.**

VILLOSA. Tree-like shrub, 12 ft.. Pale, pinkish flowers in June. 2-3 ft. **Each, 45c.**

FRENCH HYBRID LILACS. Very hardy, easily grown. Graceful plants and very fragrant. Mixed varieties. Splendid varieties on their own roots. 18-24 inches. **Each, 35c; 3 for $1.00.**

VULGARIS. The common purple lilac which everybody knows. **Each, 35c; 3 for $1.00.**

VULGARIS ALBA. This is the old-fashioned white Lilac. **35c each; 3 for $1.00.**

Honeysuckle - Lonicera

TARTARIAN (L. tatarica alba). This is one of the old-time favorite shrubs. Ten feet in height and extremely easy to grow. 18 to 24 inches. **Each, 35c; 3 for $1.00.**

Philadelphus

PHILADELPHUS, VIRGINAL. Blooms throughout the season. This is a new and wonderful addition to the Mock Orange family but is far beyond anything in this line that has been brought out. Without question one of the most beautiful shrubs grown. 2 to 3 ft. **Each, 35c; 3 for $1.00.**

Pussy Willow

PUSSY WILLOW (Not the Wild Pussy Willow). Dainty silvery flowers every winter. A beautiful round shrub in summer. Wherever you have room for a Lilac or Snowball, you have room for a Pussy Willow. Use them for tall screens or backgrounds. Cut the ends of the branches in January or February. Place them indoors in a vase of water. Watch them unfold their large catkins of silvery pink, from 1 to 2 inches long. **Price, 2 to 3 ft., each, 35c; 3 for $1.00.**

Snowberry

SYMPHORICARPOS (White Snowberry). Hardy shrub from two to three feet high, excellent for massing in the lower parts of a bed or border. Rose-colored flowers appear in July and August. The white wax-like berries remain on until late in the autumn. 2 to 3 ft. **Each, 35c; 3 for $1.00.**

SNOWBERRY, RED. Slender arching shrub, very showy in autumn when covered with bunches of bright, coral-pink, small fruits which hang on nearly all winter. 2 to 3 ft. **Each, 35c; 3 for $1.00.**

Spirea - The Most Popular Shrub

ANTHONY WATERER. Bright pink. June and July. A compact low-growing shrub with dense foliage. Flowers are borne in full flat clusters on erect stems. Very valuable for edging in front of shrubbery or as a dwarf hedge. 12 to 18 in. **Each, 35c; 3 for $1.00.**

SPIREA VAN HOUTTEI. White, May. This is the most useful of the hardy shrubs. The flowers are in flat clusters usually an inch or more across, produced by spreading, pendulous branches often drooping to the ground. 2 to 3 ft. **Each, 35c; 3 for $1.00.**

Weigelas

ROSEA. A choice, vigorous sort, which yields an immense crop of deep pink trumpet-like flowers in June, and bears a scattering of blossoms through the rest of the season. 2 to 3 ft. **Each, 35c; 3 for $1.00.**

EVA RATHKE. The flowers are a deep carmine-red, erect growing. A most profuse bloomer in spring and again in autumn. 18 to 24 in. **Each, 35c; 3 for $1.00.**

Hardy Vines

Clematis

PANICULATA. Extremely showy when covered with small, white, fragrant flowers which appear late in the season. Beautiful, shiny green foliage. **Each, 50c.**

JACKMANI. One of the best known of all the Clematis. The velvety purple flowers, when expanded, are 4 to 6 inches across, very velvety and distinctly veined. We send out strong, healthy roots of Clematis and cannot entertain any claims for non-success with these plants. **Each, 75c.**

Honeysuckle - Lonicera

HALL'S JAPAN EVERGREEN HONEYSUCKLE. Honeysuckles are well adapted for the covering of walls, arbors, etc. Leaves remain on during the winter. The flowers are white, turning to yellow; very fragrant. **Each, 25c.**

Wisteria

CHINESE WISTERIA. (W. sinensis). Will bloom the first year. Has pale green leaves and bears profusely in dense, drooping clusters; purplish, pea-shaped flowers. Blooms in May. **Each, 50c.**

Hedge Plants

CALIFORNIA PRIVET. Free growth and succeeds under adverse conditions; good in south. Foliage is nearly evergreen, remaining on the plant until mid-winter **Nice plants, 12-18 inch, 25 for $1.50; 100 for $4.00. 18-24 inch, 25 for $1.75; 100 for $6.25.**

JAPANESE BARBERRY (Berberis Thunbergi). One of the best hedge plants in existence. Beautiful throughout the year; abundant crop of bright red berries in winter. Compact growth and thorny branches make a defensive hedge that will turn cattle after five years growth. Poor soil is no barrier. **15-18 inch, 12 for $2.00; 100 for $12.00.**

Can also furnish seedlings. **12-15 inch, 25 for $2.50; 100 for $8.00.**

RED-LEAVED BARBERRY. Finest shrub in recent years. Bright red in the spring, stays red through the summer and deepens to a deep crimson in the fall. Red berries stay on all winter. Unequalled for bright coloring. All that is required to develop its brilliant coloring at all seasons is that it be planted in full exposure to the sun. **15 to 18 inch, each, 35c; 5 for $1.50.**

Ornamental and Shade Trees

Ash

EUROPEAN MOUNTAIN (Sorbus aucuparia). An ornamental deciduous tree with beautiful foliage which turns orange-red in fall; fruits showy, often remaining all winter. 6 to 8 feet. **Each, $1.25.**

Catalpa Bungei

UMBRELLA TREE. A broad, dome-shaped head at the top of a long straight stem. When the tree attains its full growth the top is often 15 feet in diameter and not over 3 to 4 feet tall on top of a strong stem from 5 to 7 feet in height. An exceptionally hardy variety. 5 to 7 feet, 1-year heads. **Each, 75c.**

Cercis

AMERICAN REDBUD. Exceedingly showy small tree in early spring when covered with small bright cerise flowers. Makes brilliant effect. 4 to 5 ft. **Each, 75c.**

Elms - Ulmus

AMERICAN (U. americana). Very valuable for park planting, for avenues and as a shade tree for lawns. One of the most majestic and graceful of our shade trees. Hardy, a rapid grower, resists drought well, long lived. 6 to 8 ft. **Each, $1.25.**

PUMILA. A new variety of Elm. A native of China. Rapid growing tree, forming a very dense head, with smaller, darker leaves than the American Elm. 6 to 8 ft. **Each, $1.25.**

Sycamore

SYCAMORE. The well-known Oriental Plane Tree. Used in great numbers to create vistas of dense green shade along new streets which require quick development of shade and ornamentation. A lofty, wide-spreading tree with deeply lobed leaves; valuable for its handsome foliage, hardiness and free growth. **6 to 8 ft., $1.25; 8 to 10 ft., $1.50.**

Oak - Quercus

RED OAK. 80 to 100 feet tall, unusually large in leaf and quick in growth. The young shoots and leaf-stems are red, the foliage purplish crimson in autumn. **Price: 6 to 8 ft., $1.75; 8 to 10 ft., $2.25.**

Poplar

LOMBARDY (Populus nigra var. italica). The Lombardy Poplar becomes one of the most striking and picturesque trees, particularly when some of the sprouts are allowed to grow about the old stock. 6 to 8 ft. **Each, 50c.**

Rose Tree of China

THE ROSE TREE OF CHINA (Prunus triloba). Is the most beautiful and showy of all small trees. Blooms before the leaves appear in the spring, with double rose-like pink flowers. As an ornament from early spring until late fall it has few equals. 2 to 3 ft. **Each, 90c.**

Weeping Willow

GOLDEN WEEPING (Salix elegantissima). A strong and the most vigorous grower of all the weeping willows. For planting in low places or on the banks of streams, springs, lakes or ponds, making a very beautiful effect. 6-8 ft. **Each, $1.75.**

Maple

SILVER (A. saccharinum). Best known of all Maples. Wide, slender spreading branches. Thrives almost anywhere. 6 to 8 ft. **Each, $1.25.**

NORWAY (A. platanoides). Large, handsome tree with a compact rounded head. One of the best and most beautiful trees for the street, the park, cemetery, or lawn planting. 6 to 8 ft. **Each, $1.50.**

BLOOD-RED JAPANESE (A. palmatum atropurpureum). A small tree or shrub, valued for its blood-red leaves and bright red branches, of dense growing habit. The delicate leaves are very showy and are fine as specimens, or can be used with evergreen plantings to good advantage. Dug with ball of earth and burlapped. **Price: 15 to 18 in. plants, each $1.75.**

Fruit Trees, Grape Vines, and Small Fruits

Peach

Height	Each	3 Trees	10 Trees
3-4 feet	$0.50	$1.40	$4.35
4-6 feet	.65	1.80	5.50

GOLDEN JUBILEE PEACH. New, early freestone, highly colored. Good shipper.
BIG RED. New, freestone, very good.
ELBERTA. High colored yellow freestone. One of the best. Most planted.
J. H. HALE. Larger and earlier than Elberta. Splendid commercial peach.
SOUTH HAVEN. Early yellow freestone. Very good.

Apples

Height	Each	3 Trees	10 Trees
3-4 feet	$0.75	$2.10	$6.75
4-6 feet	.90	2.50	7.75

YELLOW TRANSPARENT. Summer. Clear white, turning pale yellow.
JONATHAN. Early winter. Red, smooth, fine quality. Good keeper.
GRIMES GOLDEN. Early winter. Bright yellow, pink cheek, highest quality.
DELICIOUS. Early winter. Large, brilliant dark red, splendid shipper.
STAYMAN'S WINESAP. Early. Very productive; skin greenish purple; flesh yellow, firm, juicy.
ROME BEAUTY. Early winter. Good keeper, mottled and striped in shades of red.
GALLIA BEAUTY. Best of Red Rome Beauty sports, bright red, superior quality.
WINESAP. Large winter. Dark red, juicy, good commercial.
TRANSCENDENT CRAB. Brownish yellow with blush of carmine. crisp, firm.

Cherry

Height	Each	3 Trees	10 Trees
3-4 feet	$0.75	$1.95	$6.25
4-6 feet	.85	2.35	7.50

EARLY RICHMOND. Old favorite, very hardy, sour, good for cooking.
MONTMORENCY. Larger than Early Richmond, later, best for shipping.
BRASSINGTON. Earlier than Montmorency, very productive, mild, good size.
GOV. WOOD. Sweet, pinkish yellow, flesh soft, early, regular crops.
YELLOW SPANISH. Sweet, yellow, flesh firm, best and most popular sweet.

Plum

Height	Each	3 Trees	10 Trees
3-4 feet	$0.75	$2.15	$6.75
4-6 feet	.90	2.50	7.75

ABUNDANCE. One of the best Japanese plums, bears young; rich, bright red with light yellow flesh, excellent quality.
BURBANK. Tree round, sprawling, productive; bears young. Fruit round, cherry-red with lilac bloom.

Hardy Apricot

A real heady Apricot. Imported from Hungary a few years ago. Comes into bearing very young and seldom misses a crop. Quality of fruit is excellent, and it is good sized. Beautiful in bloom and when tree is in fruit. Now offered for the first time. 3-4 feet. **Each, 85c.**

Pear

Height	Each	3 Trees	10 Trees
3-4 feet	$0.75	$2.15	$6.75
4-6 feet	.90	2.50	7.75

BARTLETT. Large, early, yellow, with blush next to sun, juicy, very popular.
CLAPP'S FAVORITE. Large, fine, pale yellow with brown dots, fine texture.
ANJOU. Large, very productive, late.

Quince

3-4 feet. **Each, 80c; 2 for $1.50.**

ORANGE. Large, round, bright golden yellow. Excellent flavor. Abundant bearer, good for market. Best late variety.
CHAMPION. Bears early. Fruit is large, oval, rich color and excellent quality. Ripens late and keeps well.

Asparagus Roots

(See page 3).

DISTANCES FOR PLANTING. Apples, 30 to 40 ft. Pears, 18 to 20 feet. Quinces, 10 to 12 ft. Peaches, 16 to 18 ft. Cherries, sweet, 18 to 20 ft. Cherries, sour, 15 to 18 ft. Plums, 16 to 20 ft.

ALL PRICES IN THIS CATALOG SUBJECT TO CHANGE WITHOUT NOTICE. WE DO NOT GUARANTEE OR REPLACE PLANTS, SHRUBS OR TREES, AT PRICES QUOTED.

Grape Vines

ALL TWO-YEAR-OLD SELECTED STOCK

2-year-old varieties: **Each, 20c; 5, 90c; 10, $1.75; 25, $4.00; 100, $14.50, except where noted.**

Write for Special Prices on 1,000 lots.

CONCORD. Large, black grape, hardy and productive; juicy and sweet.
WORDEN. A black grape that resembles Concord, but of higher quality and ripens a week to ten days earlier.
CATAWBA. Berries large, round, when ripe a dark copper color; sweet, rich, musky flavor.
DELAWARE. Small, light red, thin skin, very juicy, sweet, fine flavor.
NIAGARA. Vine remarkably hardy and strong grower; bunches very large and compact; berries large, greenish white, slightly ambered in the sun; skin thin but tough.
NEW GRAPE CACO. The vines are strong and vigorous. The fruit is very large; in color a rich wine red over amber Early bearing, usually showing several good sized bunches the second year. Its flavor is luscious, sweet, delightful distinctive. **Price, 40c each; 3 for $1.00.**

Raspberries 25 for $1.35; 100 for $4.00.

CUMBERLAND RASPBERRY. The largest of all blackcaps; firm and a good shipper, and one of the most profitable in market.
LATHAM. Splendid strong growing kind, produces immense quantities of bright red extra large berries.
CHIEF. New variety. Ripens earlier than Latham, greater hardiness, more disease-resistant, bears more abundantly Fruit bright red, somewhat smaller than Latham. One of the most profitable.
ST. REGIS. Fruit commences to ripen with the earliest and continuing on young canes until October, many quarts often being picked after the first snowfall. Berries bright crimson large size, rich, sugary, with full raspberry flavor. Flesh firm and meaty, a good shipper. Wonderfully prolific. Canes stocky, of strong growth, with abundance of dark green leathery foliage.

Blackberries 25 for $1.35; 100 for $4.00.

ELDORADO. Comparatively new variety, and has proven to be the best of all blackberries under cultivation. Very hardy Fruit very large, jet black, good shipper, good quality, great producer.

Dewberry 25 for $1.35; 100 for $4.00.

LUCRETIA DEWBERRY. Hardy, productive, best variety. sweet. Highly recommended.

Strawberries 25 plants, 50 cents; 100 plants, $1.25. 1000 plants of any one variety, $7.50.

SENATOR DUNLAP. The demand for this variety has been increasing steadily, as it has an unusually long fruiting season. It bears immense quantities of large, handsome, rich, fine flavored, dark red berries.
PREMIER. Also called Howard, is a little lighter than Dunlap, of large size and good quality. Plants healthy, vigorous, productive, and have a long bearing season. It is frost-resistant in both bud and blossom.
LADY CORNEILLE. This wonderful Strawberry has more good qualities than ever before combined in any one berry. It is the healthiest, thriftiest, best growing plant with clean foliage, absolutely free of rust or leaf spot; plants large. strong, with large roots that grow deep in the ground. Thrives in both clay and loamy soil. Ripens same time as Senator Dunlap. Berries large, rich, glossy red, and of the best quality.
AROMA. One of the finest for long distance shipping. The large berries are bright red to the center. Of conical shape, with prominent yellow seeds that help to make them very attractive on market. The Aroma has three outstanding points: its large size, its very bright color, and the very fragrant aroma.

FALL OR EVERBEARING STRAWBERRIES

MASTODON. The Mastodon, which is a recent introduction, is a fall-bearing variety of great promise. Should give excellent results where water can be applied during dry weather and where special attention can be given to the plants. **Per doz., 50c; per 100, $2.50.**

Distances for Planting. Grapes, rows 10 to 16 feet apart, 7 to 10 feet in rows. Blackberries, 5 to 7 feet apart, 3 to 5 feet in rows. Currants, 4 feet apart each way. Gooseberries, 4 feet apart each way. Raspberries, rows 5 feet apart, 3 feet in rows. Strawberries, for garden culture, plant in beds 4 feet wide, 3 rows in each bed, plant 1 foot apart in rows.

Recleaned Bird Seed, Pet Supplies, Dog Foods, Etc.

CANARY SEED. Recleaned and of splendid quality. **Postage extra. Per lb., 15c; 2 lbs., 25c.**

CANARY SEED, MIXED. A mixture of the finest quality and in proper proportions. **Postage extra. Per lb., 15c; 2 lbs., 25c.**

CUTTLE FISH BONE. Good for digestion and general health. **Postage extra. Each, 5c; per ¼ lb., 25c; per lb., 75c.**

HEMP SEED. Birds are very fond of this seed; it is rich and should be fed with discretion. **Postage extra. Per lb., 15c; 2 lbs., 25c.**

LETTUCE SEED. A slight sprinkle of this is much relished by canaries. **Postage extra. Per lb., 35c.**

MAW SEED. Calculated to improve the song of canaries, etc. **Postage extra. ¼ lb., 10c; lb., 25c.**

MILLET SEED. Nutritious and appetizing. **Postage extra. Lb., 15c; 2 lbs., 25c.**

RAPE SEED. Will keep birds in excellent condition; feed with canary seed. **Postage extra. Lb., 15c; 2 lbs., 25c.**

SUNFLOWER SEED. We are large handlers of this important food for parrots. We turn out only a very choice article. **Postage extra. Per lb., 15c; 2 lbs., 25c.**

PRICES ON BIRD SEED IN LARGER QUANTITIES QUOTED ON APPLICATION

BIRD GRAVEL. Silver, fine. **(By mail, add 7c per pkg.) Pkg., 10c.**

BIRD PEP. Keeps canary birds in prime condition and prevents loss of song. Easily attached to cage. **Pkt., 10c.**

BURNETT'S FOOD. Will give immediate relief from the effects of moulting, eradicates all impurities from the blood, and restores to the songster, a strong and clear voice. **Per bottle, 20c; by mail, 25c.**

BURNETT'S LIGHTNING SONG RESTORER. Makes birds bright and active and is especially recommended in feeding over-fed or run-down birds. **Per bottle, 20c; by mail, 25c.**

BURNETT'S LOUSE POWDER. An effective remedy to be dusted on all kinds of birds. **Per can, 25c; by mail, 30c.**

BURNETT'S LIQUID TONIC. For birds. **Per bottle, 25c.**

BURNETT'S BIRD WASH. **Per bottle, 25c.**

Bird Sundries

CANARY NESTS. A wire basket well made. **Each, 10c.**
BIRD NESTING. Per pkg., 10c.
BIRD BATHS. Made of opal glass. **Each, 15c.**
SEED CUPS. Made of opal glass. **Each, 10c.**
DRINKING CUPS. Made of opal glass. **Each, 10c.**
EGG FOOD AND TONIC CUPS. Each, 5c.

Fish Food and Supplies

FISH FOOD. Especially put up for fish in aquariums and globes and should be fed regularly. We can supply it in wafer or natural form. **Per box., 10c; by mail, 15c.**
TROPICAL FISH FOOD. Per box, 15c.
NATURAL FISH FOOD. In bulk. **¼ lb., 20c; 1 lb., 60c.**
BURNETT'S GLANDEX. A new glandular food for Tropical Fish. A complete food that has every element necessary to produce normal growth and bring out the natural colors. Eliminates the necessity for live food. **¾-oz. tins, each, 20c.**
PEARL CHIPS. Postage extra. Per lb., 10c; 3 lbs., 25c.
COLORED CHIPS. Beautifully colored, many shades. **Postage extra. Per lb., 15c; 2 lbs., 25c.**
SPRATT'S CAT FOOD. Used at the leading catteries and the ever-increasing demand is the best proof of its value. **Per box, 30c.**
RIVAL CANNED CAT FOOD. Contains a meat food product with cooked rolled oats, wheat, soy bean flour and skim milk solids. **8-oz. tin, 2 cans, 15c; case of 24 cans, $1.70.**

Toys for Pets

CATNIP MOUSE. Each, 15c.
NEW CATNIP TOY. With ball and catnip. **Each, 15c.**
RUBBER BALLS for dogs. **Each, 10c.**
RUBBER DOG HEADS. Each, 25c.
RUBBER BONES. Each, 15c.
RUBBER MICE. Each, 10c, 15c, and 20c.
WILD BIRD FEED. A mixture of grain and seed for wild birds. **5 lbs., 40c; 10 lbs., 70c; 25 lbs., $1.50; 100 lbs., $5.00.**
TWO-IN-ONE HANGING BIRD FEEDER. Feeder in winter, wren house in summer. Will hook over limb of tree. Raise roof to fill. Holds two quarts. **Price, $1.94.**

Fleischmann's Irradiated Dry Yeast

Give your dog a better chance to enjoy life. Start now to feed him Fleischmann's Irradiated Dry Yeast for Dogs, rich in vitamins B, D, and G.

Increases pep and general vitality. Stimulates the appetite and aids digestion. Not a medicine but a natural food supplement which should be given to all dogs regularly. Produces a finer and heavier coat—builds stronger bones and muscles—prevents and cures rickets—develops sturdier puppies.

Just mix right in with their other food.

3½-oz. can, 25c; 8-oz. can, 50c; 1-lb. can, 85c; 5-lb. can, $3.50.

MILLERS' DOG FOODS

Nationally Famous "Battle Creek Health Foods for Dogs"

The use of Miller's Dog Foods solves complex feeding problems. Keep your dog healthy and happy by feeding a balanced diet. Satisfaction is guaranteed or money refunded.

Miller's Ration

A granular cereal and meat food that can be fed to all dogs of all ages. Ration is a wonderful base feeding, fed either alone or with other foods.

1 lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., $1.75; 100 lbs., $6.00.

Meaties (Cubes)

Ingredients same as Miller's Ration. **3 lbs. 25c; 10 lbs., 75c; 25 lbs., $1.75; 100 lbs., $6.50.**

Miller's Biscuits

Crisp appetizing biscuits composed of cereals, meats, cod-liver oil and other ingredients. Provide exercise for the teeth and supply rich nourishment.

2 lbs., 25c; 5 lbs., 60c; 10 lbs., $1.10; 25 lbs., $2.50; 100 lbs., $9.00.

Miller's Kibbles and Puppy Meal

Kibbles for grown dogs and Puppy Meal for pups insures properly balanced diet. Can be fed alone or mixed with other things. Dogs love their fine flavor.

2 lbs., 25c; 5 lbs., 60c; 10 lbs., $1.15; 25 lbs., $2.75; 100 lbs., $9.50.

Miller's Canned Dog Food

A wholesome food for dogs or cats, composed of meat, grits, (hominy), bran, spinach, carrots, onions, salt, garlic, barley and charcoal. Packed in 16-oz. cans. **Per can, 10c; per doz. cans, 90c; case of 48 cans, $3.50.**

Miller's Dog Soap

A pleasantly scented mild soap that is guaranteed to kill fleas and mites. This soap leaves your dog with a pleasant odor instead of a medicine smell. **Per bar, 25c.**

SPRATT'S DOG FOODS

SPRATT'S DOG CAKES. In large cake form for older dogs **1 lb., 15c; 2 lbs., 25c; 10 lbs., $1.20; 25 lbs., $2.90; 100 lbs., $11.00.**
SPRATT'S OVALS. The pocket dog biscuit; for all breeds. **1 lb., 15c; 2 lbs., 25c; 10 lbs., $1.20; 25 lbs., $2.90; 100 lbs., $11.00.**
SPRATT'S FIBO. A granulated food with yolk of egg for shy feeders. **1 lb., 15c; 2 lbs., 25c; 10 lbs., $1.25.**
SPRATT'S WEETMEET. A granulated food for puppies from weaning and for brood bitches, bulldogs and dainty feeders. **1 lb., 15c; 2 lbs., 25c; 10 lbs., $1.20; 25 lbs., $2.90; 100 lbs., $11.00.**

Sportsman Canned Dog Food

An ideal balanced meat cereal for dogs or cats. Thoroughly cooked and ready to feed either alone or when mixed with dog cakes. Convenient to store or carry and a handy food to have around the house for emergencies. Packed in cans containing 16 ozs. **Per can, 10c; per doz. cans, $1.10; case of 48 cans, $4.25.**

GAINES MEAT AND MILK MEAL. A complete food containing beef, milk, eggs, vegetables, cereals, minerals, cod liver oil, carotene, and other valuable health bringing ingredients. **2 lbs., 25c; 5 lbs., 60c; 10 lbs., $1.00; 100 lbs., $6.75.**

Dog Medicines

SPRATT'S CAPSULES for Ascarids and Large Round Worms in Dogs. Pkg., 50c.
SPRATT'S CAPSULES for Ascarids and Large Round Worms in Puppies and Toy Dogs. Pkg., 50c.
RIGHT-O. Roundworm Capsules. **Pkg., 25c.**
PULVEX. Kills Fleas and Lice. **2-oz. tin, 50c; 12-oz. tin, $1.25.**
PULVEX DRY CLEANER. Pkg., 50c.
KUR-MANGE. Sarcoptic Mange Dressing. **3-oz. tin, 75c.**
PULVEX WORM CAPSULES. Pkg., 75c.
CEDAR KENNEL BEDDING. Keep your dog free from fleas. **5-lb. bag, 25c; large bag, about 50 lbs., $1.75.**
MILLER'S A-1 DOG SOAP. 25c.
DOG FEEDING BOWLS. Each, 35c.
HIGH-JENE ODORLESS DRY CLEANER AND FLEA POWDER. 25c.

Insecticides and Fungicides

PARCEL POST. All insecticides may now be delivered by Parcel Post and we will so complete your order providing sufficient postage is remitted.

ANT BAIT (Magikil Jelly). A clean, odorless bait, packed in handy tubes. A dose on the surface kills ants in the nest. **Garden Tubes, 1 oz., 35c; Estate Tube, 3 ozs., 85c. Magikil Jelly** also available in safety traps at **10c each, 3 for 25c.**

ANTROL. An effective control for the honey-dew loving species of ants. Antrol ready-filled set containing 4 filled. feeders, 40c; Antrol Syrup, 4 ounces, 35c; pt., 85c.

ANTROL ANT POWDER. Kills ants, roaches, silverfish. 1¾ ozs., 15c; 3 ozs., 35c.

ANTROL ANT TRAP. Kills both sweet and grease-eating ants. Ready to use. **Each, 15c.**

ARSENATE OF LEAD. The standard insecticide for the control of chewing insects. **½ lb., 20c; 1b., 30c; 4 lbs., 75c; 12 lbs., $2.15.**

BLACK LEAF 40. A concentrated nicotine solution for aphis, thrips, and red spider. **Oz., 35c; 5 ozs., $1 00; lb., $2.25; 2 lbs., $3.25; 5 lbs., $5.85; 10 lbs., $10.60.**

BORDEAUX MIXTURE. The recognized preventive for most fungus diseases. **Lb., 30c; 4 lbs., 75c; 12 lbs., $2.15.**

CYANOGAS. "Calcium Cyanide". Grade A, for the destruction of ground moles, woodchucks, rats, and other rodents. **½ lb., 45c; lb., 75c; 5 lbs., $3.00.**

Cyanogas "Grade G". For greenhouse fumigation. **5 lbs., $3.00; 25 lbs., $10.00; 100 lb. drum, $25.00.**

Cyanogas Kills Ants. 4 ozs., 30c.

DOGZOFF. Efficient animal repellent. **Garden size bottle, 50c.**

DUTOX (Barium Fluosilicate). **A safe** and efficient material that may be either sprayed or dusted for the control of the Mexican Bean beetle, Potato beetle, Cucumber beetle, etc., without danger of burning. **Lb., 35c; 6 lbs., $1.50.**

NEW EVER GREEN. A non-poisonous pyrethrum insecticide that destroys a great number of both chewing and sucking insects. **Does** not require a spreader. **Oz. bottle, 35c; 6-oz. tin, $1.00; 16-oz. tin, $2.00.**

FISH OIL SOAP. 1 lb., 25c; 5 lbs., $1.10.

FORMACIDE. A formaldehyde dust used to control damping off. ½ lb., 45c; 1 lb., 75c.

FUNGTROGEN. A most effective control for Mildew, Black Spot, and other fungus diseases of Roses. Will not discolor the foliage. **Half pint, 75c; 1 pt., $1.25; qt., $2.00; gal., $6.00.**

GRAFTING WAX. ½ lb., 40c; 1 lb., 60c. By mail, add 7c.

GRAPE AND ROSE DUST. Powder. An effective preventive for mildew and other fungus diseases in the garden or greenhouse. **Lb., 35c; 5 lbs., $1.25.**

GRASSELLI SPREADER. A combined spreading, sticking and wetting agent. **Pint, 75c; gallon, $4.75.**

HORMODIN "A." The root-forming chemical. **5 cc., $1.00; 15 cc., $2.00.** Larger sizes available. Ask for circular.

LIME AND SULPHUR (Dry). Mixes with water. A standard lime and sulphur converted into a dry powder but having all the effectiveness of the liquid product when dissolved in water. For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, blotch, red spider and mite. **1 lb., 30c; 5 lbs., $1.25; 10 lbs., $2.25.**

LORO. A contact insecticide for Gladioli thrip, Carnations, Chrysanthemums, etc. **Pint, $2.00; gallon, $10.50.**

MAGNESIUM ARSENATE DUST MIXTURE. For control of Mexican Bean beetle. **Per lb., 35c; 4 lbs., 75c; 12 lbs., $2.25.**

MOLOGEN. Eliminates Moles from your lawn. Non-poisonous. **½ lb., 50c; 1½ lbs., $1.25.**

MULTICIDE. (Killing power multiplied). Kills many plant insects. Safe to use. Contains its own spreader. **Quart, $2.50; gallon, $9.50.**

NAPHTHALENE FLAKES. Useful in controlling Gladiolus thrips, Cyclamen thrips, together with certain soil insects. **Lb., 15c; 5 lbs., 65c; 25 lbs., $2.75.**

NICO-FUME PRESSURE FUMIGATOR. 1-lb. can will fumigate between 25,000 and 30,000 cubic feet of greenhouse space. **½-lb. can, 45c; 1-lb. can, 75c.**

NICO FUME. Liquid. An effective vaporizing liquid. **Lb., $2.25; 4 lbs., $5.75; 8 lbs., $10.00.**

NICO-FUME POWDER. High-strength tobacco powder fumigant. **5 lbs., $3.35; 10 lbs., $5.85.**

NO-MOLE. Kills moles. **28-oz. tin, $2.00.**

PARA-DICHLOROBENZENE. For killing the peach tree borer. **Per lb., 40c; 5 lbs., $1.75; 10 lbs., $3.25.**

PARIS GREEN. ¼ lb., 20c; 1 lb., 50c; 5 lbs., $2.00.

POMO-GREEN WITH NICOTINE. The leaf-green all-in-one Dust or Spray. A combination material which controls fungus diseases, and kills both leaf eating insects and aphids. Leaf-green in color and never unsightly on plants. May be used for dusting or spraying. **Lb. can, 75c; 5-lb. can, $3.00.**

RED ARROW. A contact insecticide that may be used upon tender foliage and flowers without burning or staining. Economical to use, being decidedly effective at dilutions of one to five hundred. **Oz., 35c; 4 ozs., $1.00; pt., $2.70; qt., $3.20; gal., $9.70.**

ROTENONE DUST. For farmers and commercial growers. Contains ¾% Rotenone. Use as a dust or spray. Leaves no poisonous residue. Kills bean beetle and other resistant crop pests. **1 lb., 25c; 2 lbs., 45c; 5 lbs., $1.00.**

SCALECIDE. A complete dormant spray for San Jose scale, and other orchard pests. **Qt., 65c; gal., $1.55; 5 gals., $5.50; 10 gals., $9.50; 15-gal. drum, $13.25; 30 gals., $21.00; 50 gals., $29.00.**

SELOCIDE. Kills red spider. 1 gal., $3.25.

SLUG SHOT. One of the best known remedies for Cabbage and Currant Worms as well as other leaf-eating insects. Harmless to humans. **Lb., 25c; 5 lbs., $1.00; 25 lbs., $3.00.**

SNAROL. An effective bait for controlling Cutworms, Grasshoppers, Snails, Slugs, and Sow Bugs. Not injurious to plants. **1½ lbs., 35c; 4 lbs., 85c; 15-lb bag, $3.00.**

SULPHUR. Powdered. For mildew. **3 lbs., 35c; 10 lbs., 85c; 25 lbs., $2.00; 100 lbs., $7.50.**

SULFORON. The wettable sulphur. For control of mildew on roses and similar diseases on other ornamentals. **4-lb. pkg., 50c.**

TERRO ANT KILLER. Small bottle, 25c; 2 ozs., 50c.

TREE TANGLEFOOT. A paste preparation painted around the trunks to keep caterpillars, etc., from crawling into the trees. One pound makes from 12 to 15 lineal feet of band. **6 ozs., 25c; lb., 60c; 5 lbs., $2.75; 10 lbs., $5.25; 25 lbs., $11.00.**

TREE WOUND PAINT. Prevents decay after pruning. This penetrating, antiseptic paint is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding. **½ pint, 40c; 1 pint, 70c; 1-qt. can, $1.25; 1-gal. can, $3.00.**

TRI-O-GEN.—Rose Garden Spray. Affords definite protection against practically all insects and fungus diseases in the rose garden. **Trial size, $1.50;** Standard **size, $4.00; Large Outfit, $6.00; Estate kit, $20.00.**

VOLCK, NURSERY. Effectually controls aphis, mealy bug, white fly, thrips, etc., while for red spider and scale insects upon evergreens it is unequalled. Does not discolor foliage. **½ pt., 35c; qt., 75c; gal., $2.00; 5 gals. $6.25.**

WEED KILLER. A highly concentrated solution which dilutes one part to 49 parts of water. It kills every known variety of weed, with its roots and seeds as well. Just apply with ordinary sprinkling pot. **1 qt., 55c; 1 gal., $1.75; 5 gals., $6.75. Price on larger sizes on application.**

KILLER KEMICAL will rid your lawn of dandelions and keep them out regardless of conditions on adjacent property. Easily applied with the Killer Kane. Try this new marvel.

Killer Kits (Kane and Killer Kemical, enough to kill 1500 weeds). **$1.95.**

Killer Kemical. ½ gal., $1.45; 1 gal., $2.35; 5 gals., $9.85.

Killer Kane, $1.00.

Junior Outfit. Includes 1-qt. can of Killer Kemical with special nozzle attachment. 85c.

SEED DISINFECTANTS

Improved SEMESAN BEL

For Seed White Potatoes

A disinfectant for the better control of seed-borne rhizoctonia and scab than the old soak treatment. One pound of New Improved Semesan Bel treats 60 to 80 bushels of seed potatoes. Full directions with each package.

Prices: 4 ozs., 45c; 1 lb., $1.50; 5 lbs., $6.75; 25 lbs., $31.00; 100 lbs., $122.00. Free pamphlet.

New Improved CERESAN

A New Low Cost Grain Disinfectant.

Costs only 1⅞ to 2 1/3 cents per bu. Unusually effective in controlling bunt or stinking smut of wheat, covered smut and stripe of barley, and oat smuts. One pound treats 32 bushels of wheat, oats or barley. Full directions with each package. **Prices: 1 lb., 70c; 5 lbs., $3.00.**

SEMESAN

For Flower and Vegetable Seeds

Prevent the many damaging diseases of flowers and vegetables that are carried on the seed, by disinfection of the seed with Semesan. Recommended especially for seeds, bulbs, gladiolus corms, dahlia tubers, and rose bushes. Easily applied as a liquid or dust. One pound treats 15 to 30 pounds of seed. Directions in every can.

Prices: 2 ozs., 35c; 1 lb., $2.25; 5 lbs., $9.90; 25 lbs., $45.50. Free pamphlet.

New Improved SEMESAN, Jr.

For Seed Field and Sweet Corn.

Treatment costs less than 3 cents per acre. Easily and quickly applied as a dust at the rate of 2 ounces per bushel of seed.

Prices: 4 ozs., 30c; 1 lb., 75c; 5 lbs., $3.25; 25 lbs., $14.00. Free pamphlet.

SEMESAN or NU-GREEN

For Successful Prevention and Control of Brown Patch on Lawns and Golf Courses.

One pound of Semesan or Nu-Green in 50 gallons of water treats 1000 square feet of turf by sprinkling. Applied with a power sprayer, 50 gallons of Semesan cover 2000 to 3000 sq. ft.; 50 gallons of Nu-Green solution 1500 to 2000 sq. ft.

Prices, Semesan: 2 ozs., 35c; 1 lb., $2.25; 5 lbs., $9.90; 25 lbs., $45.50; 100 lbs., $180.00. **Nu-Green:** 5 lbs., $6.30; 25 lbs., $29.00; 100 lbs., $115.00. Free pamphlet containing description of the symptoms of various types of diseases causing Brown Patch, also a program for their prevention and control.

Fertilizers for Lawn and Garden

The Complete Balanced PLANT FOOD

for Lawns, Flowers, Shrubs, Trees and Vegetable Gardens

Growing things respond quickly when given this excellent plant food. You can expect better results when you use SACCO.

Clean, odorless, easy to use. Complete directions for applying in each bag.

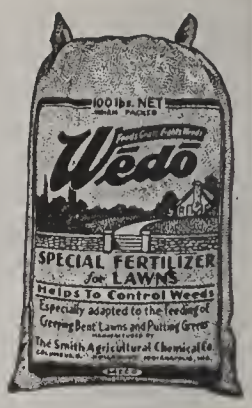
1-lb. carton	$0.10
5-lb. carton	.45
10-lb. carton	.85
25-lb. bag	1.50
50-lb. bag	2.50
100-lb. bag	4.00

WEDO

WEDO is a fertilizer made specially for grass. You are assured of finer results from its use. The cost?—more per pound because it is made from finer materials—but, less per area because less than one-half the amount is required—only 1½ lbs. per 100 sq. ft. A trial will convince you.

Helps to control weeds!

10-lb. bag	$0.90
25-lb. bag	1.85
50-lb. bag	3.25
100-lb. bag	5.75



ADCO. The addition of Adco to the compost pile or to other vegetable refuse, grass clippings, leaves, etc., using two pounds to each wheelbarrow load of refuse, will produce a clean, odorless manure within three to four months. **7½ lbs., $1.00; 25 lbs., $2.00; 150 lbs., $10.50.**

ALUMINUM SULPHATE. A material used in creating acid soils, in which Azaleas, Rhododendrons, and similar plants are to be grown. Use one pound to 10 square feet of surface. **5 lbs., 40c; 10 lbs., 70c; 25 lbs., $1.50; 50 lbs., $2.50; 100 lbs., $4.00.**

AMMONIA SULPHATE. A readily soluble nitrogenous fertilizer analysing about 25% ammonia. **5 lbs., 30c; 10 lbs., 50c; 25 lbs., $1.00; 50 lbs., $1.75; 100 lbs., $3.25.**

BLOOD MEAL. A quickly available, yet long lasting organic fertilizer. **5 lbs., 40c; 10 lbs., 75c; 25 lbs., $1.75; 50 lbs., $3.00; 100 lbs., $4.90.**

BONE MEAL. The fertilizer for all purposes; safe and effective. Especially good for use in the Rose garden, lawns and on flowering shrubs. **5 lbs., 30c; 10 lbs., 50c; 25 lbs., $1.00; 50 lbs., $1.70. Bag of 125 lbs., $3.75.**

CATTLE MANURE. Not pulverized, but rather shredded, making it a desirable fertilizer upon heavy clay or loose sand soils. **Per bag of 100 lbs., $2.75.**

COTTON SEED MEAL. Rich in ammonia and potash, making an excellent organic fertilizer for ericaceous plants such as Laurel, Rhododendrons, Azaleas, etc. **5 lbs., 25c; 10 lbs., 50c; 25 lbs., $1.00; 50 lbs., $1.75; 100 lbs., $2.75.**

HENURE. Poultry manure and peat moss combined. Lawn and garden dressing packed in bags measuring about 2½ bushels, weighing 50 lbs. **Per bag, $2.00.**

Florida Humus

Florida Humus is humus in its purest, richest form—with a high content of organic nitrogen which makes it a plant food in itself. It is decayed vegetative mold from underwater deposits where, for centuries, the life-giving organic matter has been sealed in and all weed seeds, waste and foreign matter sealed out. Air-dried and conveniently packaged, it is light, fluffy, clean, odorless—and more highly absorbent than any other humus known. **Florida Humus** will bring life to your soil—and to your lawn and gardens—because it increases the water-holding capacity of the soil . . . prevents packing of heavy soils . . . builds up sandy soils . . . promotes bacterial action . . . and supplies natural organic nitrogen. Its benefits are both immediate and lasting.

100-lb. boxes, $2.50 each; per ton, $40.00. 200-lb. boxes, $4.50 each; per ton, $35.00.

PULVERIZED LIMESTONE. A Lawn and Garden Conditioner. For renewing old lawns, use at the rate of 100 pounds for each four hundred square feet. For new lawns, give a generous coating at the rate of 1,000 to 2,000 pounds per acre for sandy soils, and 2,000 to 3,000 pounds per acre for clay soils. **Per bag of 80 lbs., 85c; 5 bags, $3.25; 10 bags, $5.50.**

MURIATE OF POTASH. The essential element for the proper development of all root crops. **5 lbs., 30c; 10 lbs., 55c; 25 lbs., $1.00; 50 lbs., $1.90; 100 lbs., $3.25.**

NITRATE OF SODA. Where quick succulent growth is desired such as with Lettuce, Spinach, etc., Nitrate of Soda is particularly valuable. **5 lbs., 30c; 10 lbs., 50c; 25 lbs., $1.00; 50 lbs., $1.75; 100 lbs., $3.25.**

PHOSPHATE, SUPERPHOSPHATE (16% Acid Phosphate). The rapid development of plants with a corresponding stimulation of flower production are qualities that may be attributed to phosphates.

5 lbs., 25c; 10 lbs., 40c; 25 lbs., 80c; 50 lbs., $1.35; per bag of 125 lbs., $2.50.

PLANTABBS. A widely advertised fertilizer and stimulant in tablet form made especially for potted plants. **Package of 30 tablets, 25c; 75 tablets, 50c; 200 tablets, $1.00; 1000 tablets, $3.50.**

IMPORTED GRANULATED

Peat Moss or Bulb Fibre

This Granulated Peat Moss or Mull is especially selected for horticultural purposes. It is finely granulated, of little weight, and is entirely free from foreign matter. It is packed in compressed bales, burlapped on all sides, sticked and wire-strapped. When loosened the contents will cover 240 sq. ft., 1 inch deep. It is not sold by weight, because the weight of the bale is dependent on its moisture content, which varies according to atmospheric conditions.

A few of the many purposes for which it is used: fertilizer carrier, mulching, cold frames, lawns, improving soils, propagating, cuttings, landscape work, benches (greenhouse), golf courses, packing, storing bulbs, potting, layering, seed beds, etc. Send for booklet giving detailed information.

1 bushel, 50c; 2½ bushels, $1.25.
Large Bales containing 20 bushels per bale.

PIONEER BRAND G.P.M. $3.50 per bale.
JUSTRITE BRAND. $3.25 per bale.

SHEEP MANURE. One of the most used animal manures in the growing of flowers and upon lawns. **5 lbs., 30c; 10 lbs., 50c; 25 lbs., 90c; 50 lbs., $1.50; 100 lbs., $2.40.**

SORBEX. **Sorbex** is manufactured from a specialized high quality moss peat—not to be confused with ordinary peat moss. **Sorbex** is ground 25 times finer than any peat moss. This is important; it will blend with soils. For larger and finer root systems, always mix **Sorbex** in the soil. **Bag containing 10 bus., $2.75.**

PLANT MARVEL. Ensures bushy ferns and healthy flowers and plants. It is a pure, rich, quick-acting plant tonic and contains 61.30 per cent of plant food. Begins to feed instantly. Nourishes continuously and plentifully. **Package, 25c; ½ lb. container, 60c; 1-lb. container, $1.00.** The **$1.00** size is the most economical.

TOBACCO DUST. A good remedy for green fly, aphis, fleas, beetles, etc. **1 lb., 10c; 3 lbs., 25c; 10 lbs., 65c; 100 lbs., $4.50.**

TOBACCO STEMS. Used for fumigating plants to kill insects, and as a mulch for roses, asters, lettuce, etc. **Bale of about 100 lbs., $2.00.**

VIGORO, the complete plant food made by Swift, contains all of the elements plants must get from the soil. Four pounds of this sanitary, odorless plant food per 100 square feet of lawn or garden area assures well-nourished plants.

100 lbs.	$4.00	25 lbs.	$1.50	5 lbs.	$0.50
50 lbs.	2.50	10 lbs.	.85	1 lb.	.10

HORTICULTURAL TOOLS AND SUPPLIES

DIBBLES. Iron with wood handle. For transplanting plants and planting bulbs. **Each, 75c.**

National **EEZY WEAR** Garden Gloves

WASHABLE!
Sizes for women: "Small," "Medium," "Large". For men: "Medium" and "Large". **Price, 75c a pair; 2 pairs, $1.40, postpaid.**

"EEZY WEAR" gloves are also available in ladies' sizes with a green cuff of waterproof fabric.

KREME SKIN GLOVES. Cream-treated in ladies' sizes. **$1.00 per pair.**

GLASS CLOTH. A substitute for glass. **Per yard. 25c; 10 yds., $2.20; 100 yds., $18.00.**

"ACME" FLOWER SHEAR FOR THE GARDEN. This improved flower shear cuts and holds flowers after cutting. Use one hand in cutting and the shear holds the flower. It's a time saver—particularly advantageous in cutting roses. Has nickel-plated blades and green enamel handles. An indispensable garden tool. **Each, 55c.**

DOO-KLIP GRASS SHEAR. Prevents blisters, wrist tire and skinned knuckles. Arm and hand always in a natural position. Blades of case-hardened, rust-resisting steel. No adjustments to make. **Each, $1.50.** Long handle, **$2.50** each.

CANE STAKES, JAPANESE BAMBOO. Dyed green.
3 ft. ..... **10c doz.; 60c per 100**
4 ft. ..... **15c doz.; 75c per 100**

CANE STAKES, JAPANESE BAMBOO. Natural color. Strong, light, durable, for supporting plants.
6 ft. ..... **$1.75 per 100**
8 ft. ..... **$2.00 per 100**

WATERING POTS. Long spout. Made from best quality of iron and heavily galvanized. Two roses with each pot for fine and coarse watering.
4-qt., round $4.25
6-qt., round 4.50
8-qt., round 5.00
10-qt., oval 5.95

RITTENHOUSE MOLE TRAP. The simplest, safest and surest mole trap ever invented. No danger of its going off unless the trigger is touched. Made of all steel and tinned. The spears are spring steel, therefore do not have to be as long as soft steel. **Price, 95c.**

MOSS, GREEN SHEET. For hanging baskets, etc. **Per bale, 35c; large bundle (5 bales), $1.50.**

Germaco **Hotkaps**

An "Individual Hothouse" For Every Plant.

— BIGGER CROPS —
THREE WEEKS EARLIER!

GERMACO HOTKAPS guard plants against frost, wind, rain, insects, etc., by completely covering them.

They maintain a perfect mulch around each plant. Crops give a 10 to 25 per cent greater yield and mature 2 to 3 weeks earlier —for higher prices.

HOTKAPS are patented wax paper cones—placed over plants or seeds at time of planting. Inexpensive, easy to use. One man can set over 2,500 per day.

PRICES: 1000 for $10.25; 250-package with setter and tamper, $3.85; 100-package with setter and tamper, $2.65; 25-package contains 25 Hotkaps and paper setter, 50c; steel setter and tamper, $1.50; garden setter (heavy paper), 50c. Postage extra.

Labels

	100	1000
TREE LABELS.		
3½ inch, copper wired	$0.30	$2.75
POT LABELS.		
4 inch	.25	2.50
5 inch	.30	2.75
6 inch	.35	3.00
8 inch	.40	3.50
GARDEN LABELS.		
8 inch	$0.75	$6.75
10 inch	.90	8.00
12 inch	1.20	11.00

Perfect Garden Labels

When marked with an ordinary pencil remains permanently legible in all sorts of weather. When placed in the garden the horizontal marking space is quite easily seen, yet at the same time the attractive blue gray color of the label blends with foliage and soil.

Border Size. 5 inches long for general garden use. **$1.00 per doz.; 25 for $2.00; 100 for $7.75.**

Rock Garden Size. 4 inches long for small plants in the rock garden. **90c per doz.; 25 for $1.75; 100 for $6.75.**

Show Garden Size. 7 inches long, a more conspicuous label for taller growing plants. **$1.25 per doz.; 25 for $2.50; 100 for $9.50.**

Tie on Label. 3½ inches by ¾ inch for roses, shrubs, etc.; fitted with copper wire. **$3.00 per 100.**

Pot Label. 4 inches x ¾ inch for pots, seed frames, etc. **$2.50 per 100.**

PLANT LABELS. Waterproof, white celluloid. No. 1, 3x½ inch. **25c per doz.**

Dunham Water-Weight Lawn Rollers

The Dunham Water-Weight Roller can be made as heavy or as light as desired by simply putting in the right amount of water. For storing away or for moving, it can be emptied entirely and is light and easy to handle.

No.	Dia.	Length	Wt. Empty	Wt., Water Filled	Price
2	14 in.	24 in.	60 lbs.	175 lbs.	$ 9.25
4	18 in.	24 in.	82 lbs.	265 lbs.	11.50
7	24 in.	24 in.	110 lbs.	420 lbs.	16.50

The above rollers weigh 50% more when filled with sand—water is more convenient.

NEPONSET WATERPROOF PAPER FLOWER POTS. Lower in cost than earthen pots and unbreakable. Domestic and commercial gardeners need the efficiency and convenience of the light weight, economical **Neponset Pot.** Excellent for growing, storage, shipping and miscellaneous purposes. Made of tough, waterproof paper that gives to them a lasting strength. They permit speed in handling, and if desired, it is easy to remove plants from them.

Size	Doz.	100	1000
2¼-inch	$0.10	$0.50	$ 4.00
2½-inch	.10	.60	4.35
3 -inch	.15	.70	5.50
3½-inch	.20	.90	7.50
4 -inch	.25	1.10	9.00

CYCLONE BROADCAST SEED SOWER. A general seeder, which has four pressed tin flanges and distributing wheel under the bottom; gearing wheel centered, making it easy to run. Has an accurate gauge. Sloping feed board and force-feed steel frame. This is one of the most widely used types. The sack holds one-half bushel; convenient hand hold and body shield. The machine is well braced. **Price, $2.75.**

THE SACCO SPREADER. Model 3318. Instantaneous feed control from handle. Simple adjustment for regulating quantity. Saves time and materials.
18-in. Spreader ..... $ 3.90
30-in. Spreader (with regular wheels). 16.00

NOC-OUT FERTILIZER and LAWN SEED DISTRIBUTOR. For easy, uniform distribution of commercial fertilizer or lawn grass seed. An inexpensive time and labor saving device. **Each, $1.25.**

SPRA-BULB—For Powder or Water. A rubber bulb sprinkler for spraying plants, moistening laundry and spraying powder on plants or animals. Designed for instant filling. The spray head comes out like a cork and the liquid or powder is sucked in through the open neck of the bulb. **Each, 50c.**

PLANT TUBS. An excellent new tub, cheap, neat and durable. Made from ¾-inch cypress.

	Diameter	Depth	Each
No. 3.	8 in.	8 in.	$0.80
No. 5.	10 in.	9 in.	1.00
No. 7.	12 in.	11 in.	1.50
No. 9.	14 in.	13 in.	2.00
No. 11.	16 in.	15 in.	2.50
No. 13.	18 in.	17 in.	3.50
No. 15.	20 in.	19 in.	4.75

Handles, 35c per pair extra.
All Prices Subject to Market Changes.

HUDSON SPRAYERS

HUDSON PERFECTION SPRAYER. Capacity 4 gallons, equipped with 2-ft. brass extension rod and Perfection automatic shut-off brass disc nozzle.

No. 210-BF Perfection. Copper tank. **Each, $10.00.**

No. 210-GF Perfection. Galvanized tank. **Each, $6.75.**

HUDSON JR. SPRAYER. Capacity 2½ gals., equipped with 2-ft. brass extension rod and Perfection automatic shut-off brass disc nozzle.

No. 140-BF Junior. Copper tank. **Each, $7.35.**

No. 140-GF Junior. Galvanized tank. **Each, $4.60.**

HUDSON CLIMAX SPRAYER. Capacity 3½ gallons, equipped with 18-inch curved brass extension rod and Perfection automatic shut-off brass disc nozzle.

No. 135-GF Climax. Galvanized tank. **Each, $4.75.**

No. 135-BF Climax. Copper tank. **Each, $7.65.**

HUDSON LEADER SPRAYER. Capacity, 3¼ gals. Galvanized tank. **Each, $3.50.**

HUDSON THRIFTY SPRAYER. Capacity 2¼ gallons, equipped with 18-inch curved brass extension rod and Perfection automatic shut-off brass disc nozzle.
No. 120-GF Thrifty. Galvanized tank. **Each, $3.00.**

HUDSON CRITIC SPRAYER. A continuous sprayer with glass tank and double nozzle to spray ahead or up.
No. 427-G Continuous. Each, $1.00.

HUDSON VAPOR SPRAYER. An excellent small sprayer for either household or garden use. Capacity ¾ pint.
No. 222 Vapor. Each, 25c.

HUDSON HANDY SPRAYER No. 440. Capacity 1 quart. **Each, 30c.**

HUDSON GLASS JAR SPRAYER. Capacity 4½ ounces.
No. G3½. Each 20c

"JAKE" COMPRESSED AIR SPRAYERS

Continuous. Equipped with nozzles to spray up and ahead.

No. 50-G. Tin pump and galvanized container. **Each, $1.00.**

No. 50-B. Brass pump and container. **Each, $1.50.**

No. 80-Superior. Gives a powerful spray. Easy to operate. Has a galvanized container. Capacity ½ gal. **Each, $1.35.**

PARAGON SPRAYERS

No. "0". Capacity 3½ gallons. Equipment, 4 ft. of special spray hose, 3 ft. spray pipe. 3 spray nozzles. Each, $12.95.

No. "1". Capacity 6 gallons. Equipment, 5 ft. special spray hose, 5 ft. spray pipe, 3 nozzles. Net price, $17.75.

No. "3". Capacity, 12 gallons. Equipment, 10 ft. special spray hose, 7½ ft. spray pipe, 3 spray nozzles. Net price, complete, $23.50. Without truck, $19.50.

DUSTERS

MAJOR DUSTER. For all powder insecticides. Has large powder reservoir. Strainer shaped to prevent clogging and give uniform volume of discharge. Over-all length is 14 inches. **Each, 90c.**

HUDSON CADET DUSTER. Adapted for use with all insect powders. A favorite with the housewife in applying roach, ant and various bug powders. Powder reservoir, 1¾ inches diameter, 5 inches long. **Each, 40c.**

SIGNAL DUSTER. Convenient and economical to use because of its size and ease of operation. Powder reservoir, 1½ inches diameter, 3 inches long. **Each, 30c.**

MODEL BX FEENY DUST GUN. The Feeny Dust Gun emits powder in clouds of right consistency from any position and in any direction, downward, upward or horizontal. Entirely different principles than have been used heretofore on such outfits.
Model BX. 28 inches long $0.90
Model D. Two-quart capacity 2.60

INSECT - O - GUN

Attached to your garden hose, the Insect-O-Gun ejects a penetrating wide angle fan spray with tremendous power, reaching every insect in its path.

3 Gallon Size. Equipped with a standard pint Mason Jar. Each filling of pint jar delivers 3 gallons of spray, $3.75 complete.

Also made in two larger sizes. Descriptive circular will be mailed on request.

"OUR SEEDS GROW FRIENDS"

We want to thank all our old friends for their wonderful loyalty and the many kind words spoken for our Seeds, Bulbs and Plants. To our new friends we wish to thank you for your part in making the past year one of our busiest seasons.

Suggestions for Ordering

All varieties of Flower and Vegetable seeds are numbered. Our order sheet is arranged to save you the time and trouble of writing the names of the seeds in full.

If you send your order early the benefit will be mutual. You will have your seed on hand when the planting season arrives and it will enable us to get it out before the "please rush" time arrives.

Write your name and address distinctly and in full, please use the order sheet and envelope inserted in this catalog.

Seeds by Mail, etc.

PARCEL POST CHARGES have greatly lowered the cost of sending packages by mail. Most customers are no doubt familiar with charges from Cincinnati and that it depends on the weight of the package and the zone.

Packets and half pounds only of Beans, Corn, Peas, and all other varieties of Vegetable and Flower Seeds will be forwarded postpaid at catalog prices, unless otherwise noted. Grass Seeds, Clover Seeds, Miscellaneous Seeds, Plants, Tools and Supplies are **not** sent free by mail—see Parcel Post Rates.

About Warranting Seeds

We have often been asked if we **"Guarantee or warrant our Seeds."** We beg to state plainly, we do not, for the reason that practical experience has assured us of the fact that crops may fail, no matter how fresh or pure the seed sown may be. Contingencies arising beyond our control, such as weather conditions, insects, and differences in soil, sometime prevent the very best seeds always giving satisfaction. We trust that our customers will fully realize that **it is to our interest to send none but the best quality seeds.**

With the best of management and good seeds there will be an occasional unaccountable failure. The best gardeners sometimes fail, and try again with seeds from the same lot with good results.

We give no warranty, express or implied, as to description (including kind, variety and name), quality, productiveness, or any other matter of any seeds, bulbs, or plants we send out and we will not be in any way responsible for the crop.

THE J. CHAS. McCULLOUGH SEED CO.

Parcel Post Rates

		First Pound (over 8 ozs. rates 1 lb.)	Each Additional Pound or fraction
First Zone	within 50 miles	$0.08	$0.01
Second Zone	within 50 to 150 miles	.08	.01
Third Zone	within 150 to 300 miles	.09	.02
Fourth Zone	within 300 to 600 miles	.10	.04
Fifth Zone	within 600 to 1000 miles	.11	.06
Sixth Zone	within 1000 to 1400 miles	.12	.07
Seventh Zone	within 1400 to 1800 miles	.14	.09
Eighth Zone	all over 1800 miles	.15	.11

The above table will enable customers to remit the proper amount of postage.
When seamless cotton bags are required they must be remitted for at 35c each.
We reserve the right to advance or decline with the market on any item listed in this catalog.

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A. B. MORSE COMPANY, HORTICULTURAL PRINTERS, ST. JOSEPH, MICH.

How *to make and maintain a* Lawn

IF THESE directions are followed and EMERALD LAWN GRASS SEED is used, there is every reason why you should have a lustrous, green, velvety lawn that will be a source of pride to yourself and a pleasure to all who see it.

THE SOIL

A good soil is the essential foundation for the making of a good lawn. If grading is necessary, it should be done before the seed is sown. The same applies to draining, because drainage is essential for a good lawn.

The surface soil should be plowed or dug deeply, thoroughly pulverized and raked fine and smooth, removing all roots, stones, trash, etc. Work should not be spared at this stage, as the surface can only be changed by starting all over again after the sod has been established.

FERTILIZING

To get a fine, rich, velvety sod that will be permanent, fertilizer should be applied liberally.

Concentrated commercial fertilizers or Pulverized Sheep Manure are best since you can obtain the right type of Fertilizer to supply the necessary element in which your land is deficient. Your dealer can tell you the kind best adapted for your soil. Avoid fresh stable manure as it invariably contains weed seeds.

Apply FERTILIZER at the rate of 3 or 4 pounds to each 100 square feet. SHEEP MANURE at the rate of 15 pounds to each 100 square feet. Work the fertilizer into the ground thoroughly. When top dressing grass, care should be taken to distribute the fertilizer when the grass is dry, or im-

ONLY THE BEST LAWN SEEDS PRODUCE BEAUTIFUL LAWNS

mediately give the lawn a good sprinkling to prevent leaf injury.

SEEDING

While a lawn may be made successfully at any time during the year when the ground is in good condition, the best season is in early autumn or in the spring. If making a lawn in the spring prepare the ground as soon as the soil can be worked.

Sow the EMERALD LAWN GRASS SEED broadcast, half one way and half at right angles, to give an even distribution. Sow when the air is calm; sowing in the wind causes an uneven stand. Work the seed into the ground with a light rake, then roll the ground with a lawn roller.

One pound sows 250 square feet (10 x 25).

An acre requires 80 to 100 pounds.

CARE OF THE LAWN

Start clipping the grass as soon as it gets two or three inches high. The mowing should be done frequently and not too closely. Lawns are greatly benefited if rolled each spring, as soon after the frost is out of the ground as possible. Lawns should not be trampled when wet and soft.

Weeds in a lawn may be kept down to a large extent by frequent cutting. If there is a good soil properly fertilized and heavily seeded the weeds and wild grasses will not have the opportunity to thrive as well as on a neglected lawn.

SPRINKLING THE LAWN

A good deal of attention should be given to sprinkling the lawn. The hose should not be used until dry weather begins. Once a week is often enough and then the soil should be wet thoroughly to a depth of six

inches. Light sprinkling every evening not only encourages the grass to root shallow, but it encourages tree roots to come to the surface for moisture. Properly watered lawns have deep-rooted grass and will withstand dry weather much better.

RENOVATING OLD LAWNS

No lawn can be kept in first-class shape if the soil is shallow and poor. Many old lawns can be benefited by surface application of fertilizer and by re-seeding with EMERALD LAWN SEED.

Rake the lawn thoroughly with a steel rake and apply the seed at the rate of one pound per 500 square feet. Grass usually dies from lack of plant food, hence it is a good plan to apply FERTILIZER or PULVERIZED SHEEP MANURE in the same proportions as already stated under the heading of "FERTILIZING."

The seed and fertilizer should then be covered by raking lightly and the lawn rolled.

EMERALD LAWN GRASS SEED

EMERALD LAWN SEED is composed of the best grades of Kentucky Blue Grass, Red Top, English Rye Grass, White Clover and other fine grasses. We combine these grasses because they grow quickly and protect the Blue Grass, which is slower to germinate, thereby giving not only a permanent lawn but a good sod in six weeks.

For years we have made a study of lawns and our experiments have shown us that for quick and permanent results our EMERALD LAWN GRASS SEED has never been excelled. We know that EMERALD LAWN SEED will give satisfaction wherever a fine, velvety turf is wanted, except in dense shade.

SHADY NOOK LAWN SEED

For sowing on the north side of buildings, between houses and for securing a lawn under large shade trees. In many lawns there are places where it seems as though nothing can be grown. Some are shaded by large trees and others by buildings. For these locations we recommend our SHADY NOOK LAWN SEED.

It is always advisable for those who are seeding down the shady places to supply new soil, if possible, especially if large trees are producing the shade, as their roots spread so fast as to exhaust the nourishment in the soil. When unable to supply new soil, the ground should be well dug over. In most shady places the soil is starved from lack of plant food, and fertilizer should be applied liberally

---

FOR BEST RESULTS

USE

Emerald Lawn Seed

FOR SALE BY

THE J. CHAS. McCULLOUGH SEED CO.

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CINCINNATI, OHIO

Proven Winners

Zinnio, Fontosy

Scobioso, Rosette

Scabiosa "Rosette"

A glarious new cclar in Annual Scabiasa, a beautiful deep rase suffused with salman. Flawers extra large an lang, stiff stems. **Pkt. 15c; 2 for 25c.**

Zinnia, Fantasy

An interesting new type with medium size, graceful, shaggy flawers. Calars include brilliant reds, arange, yellaw, saft pink, and cream. Award af Merit, 1935 All-America Selectians. **Pkt., 15c; 2 for 25c.**

Crown of Gold Marigold

An entirely new type. Calar bright galden arange. Faliage adarless. Flawers delightfully sweet scented. Blooms all summer and fall. 2 feet. **Pkt., 10c.**

Cornflower, Jubilee Gem

Cornflower, Jubilee Gem

Jubilee Gem is a dwarf variety af Carnflawer, making a campact plant literally cavered with flawers. It has faliage distinct fram all athar Carnflawers, farming a tufted mass af vivid green, cantrasting well with the dark but vivid dauble blue flawers. The plant is abaut 12 inches in height. **Pkt., 15c; 2 for 25c.**

Marigold, Crown of Gold

EARLY SCARLET GLOBE RADISH
(See page 18)

"THOMAS LAXTON" PEA
(See pages 2 and 16)

"IMPERATOR" CARROT
(See pages 2 and 8)

"CINCINNATI MARKET" CORN
(See page 2)

STRAIGHT EIGHT CUCUMBER (See pages 2 and 10)

LOGAN GIANT BEAN (See pages 2 and 4)

NORWOOD BLOOD TURNIP BEET
(See pages 2 and 6)

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with

Unexcelled Table Quality

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